Former National Guard Armory Walters, Oklahoma

Remediation Final Report



Prepared by:
Department of Environmental Quality
707 North Robinson
Oklahoma City, Oklahoma 73101



The Oklahoma Department of Environmental Quality (DEQ) is pleased to present the Cotton County Free Fair Association with the Final Remediation Report for the former Walters Armory.



DEED NOTICE

A Notice of Remediation has been filed in the county courthouse and is included in this report. It summarizes remediation performed at the former Walters Armory and describes continuing operation and maintenance and land use restrictions. This completes the DEQ cleanup of the property. For more detail on the activities described below, see enclosed reports.

ASBESTOS REMEDIATION

DEQ and its contractors completed the following activities:

- Asbestos inspection, including:
 - Asbestos-containing floor tile and mastic, window glazing, and pipe insulation and fittings.
- Asbestos Abatement, including:
 - Removal of floor tile, mastic, windows and window glazing, and pipe insulation and fittings.

TARGETED BROWNFIELD ASSESSMENT

On August 22, 2013, DEQ provided a Phase I Targeted Brownfield Assessment to the City of Walters. A copy of this report is available at http://www.deq.state.ok.us/lpdnew/scapIndex.htm

LEAD REWEDIATION

DEQ and its contractors completed the following activities:

- Lead-based paint (LBP) inspection
- Lead dust wipe sampling
- LBP abatement, including:

Removal of all overhead doors and tracks, all windows and ventilation frames, and all doors which contain LBP.

Scraping and sealing interior and exterior metal overhead door frames, overhead door lintels, modified bollards, and edge protectors; window lintels, window sills, door lintels, and I-beams and bar joists in Drill Floor and Rooms 23, 24, & 25; ceilings of Rooms 23, 24, & 25; and wood board on wall in Drill Floor.

- Lead dust abatement, including:
 - HEPA vacuuming and wet washing of floors in the building
- Proper disposal of associated waste





1	Deeds and Legal Documents		
2	Maintenance Plan		
3	Inspection Reports		
4	Scope of Work		
5	Final Abatement Reports		
6	Confirmation Sampling		

DEEDS AND LEGAL DOCUMENTS

11-1665

I-2011-001665 Book 0369 Pg: 696 06/27/2011 2:11 pm Pg 0696-Q697 \$ 15.00 Doc: Nikki Vardeli - Cotton County Clerk State of Oklahoma

QUITCLAIM DEED

KNOW ALL MEN BY THESE PRESENTS:

That the State of Oklahoma, acting by and through the Oklahoma Military Department by its Adjutant General, Major General Myles L. Deering, a body corporate and politic and instrumentality of the State of Oklahoma, Grantor, in consideration of the sum of One and No/100 dollars and other valuable consideration in hand paid, the receipt and sufficiency of which are hereby acknowledged, do hereby quitclaim, grant, bargain, sell and convey unto Cotton County Free Fair Association, Grantee, the following described real property and premises lying and situated in the Cotton County, State of Oklahoma, as follows:

A tract of land commencing at a point 958.1 feet west of the Northeast corner of the Northeast Quarter of Section twenty-six (26), in Township two (2) South of Range eleven (11) West of the Indian Meridian; thence south a distance of three hundred and fifty (350) feet; thence west a distance of two hundred and fifty (250) feet; thence north a distance of three hundred and fifty (350) feet; thence east a distance of two hundred and fifty (250) feet to the point of beginning.

NUM, INDE **JOURNAL**

together with the improvements thereon and appurtenances thereunto belonging.

THE ABOVE DESCRIBED PROPERTY MAY HAVE BEEN **NOTICE:** CONTAMINATED WITH LEAD, ASBESTOS AND OTHER CONTAMINANTS.

TO HAVE AND TO HOLD the Real Property unto the Grantee its successors, and assigns.

Signed and delivered this 15 day of

gned ST

STATE OF OKLAHOMA

By:

Major General Myles L. Deering,

Adjutant Ceneral of the State of Oklahoma

I-2011-001665 Book 0369 Pg: 697 06/27/2011 2:11 pm Pg 0696-0697 Fee: \$ 15.00 Doc: \$ 0.00 Nikki Vardeli - Cotton County Clerk State of Oklahoma

ACKNOWLEDGMENT

STATE OF OKLAHOMA)	
)	SS
COUNTY OF OKLAHOMA)	
Before me,	in and for this state, on 2011, personally appeared Major General Myles L.
this 15 day of The	, 2011, personally appeared Major General Myles L.
Deering, as Adjutant General of	the State of Oklahoma, to me known to be the identical
person who executed the within	and foregoing Quitclaim Deed, and acknowledged to me
that he executed the same as fre	e and voluntary act and deed for the uses and purposes
therein set forth.	\wedge
- Ammunum	North Myer North Public
	Notary Public
OTA A	U
A Commissi Expires:	
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A10	25
The state of the s	

Return:

Amber Corbin 3501 Military Circle Oklahoma City, Ok 73111 14-1538

DEED NOTICE

i-2014-001538 Book 0388 Pg: 512 05/12/201412:17 pm Pg 0512-0514 Fee: \$ 17.00 Doc: \$ 0.00 Nikki Vardell - Cotton County Clerk State of Oldahoma

COMPLETION OF REMEDIATION FORMER WALTERS ARMORY WALTERS, OKLAHOMA



AFFECTED PROPERTY: The Affected Property is the former Walters Armory located at 608 West Missouri Street, City of Walters, Cotton County, Oklahoma, 73527.

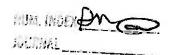
The legal description of the Affected Property is as follows:

A tract of land commencing at a point of 958.1 feet west of the Northeast corner of the Northeast Quarter of Section twenty-six (26), in Township Two (2) South of Range eleven (11) West of the Indian Meridian; thence south a distance of three hundred and fifty (350) feet; thence west a distance of two hundred and fifty (250) feet; thence north a distance of three hundred and fifty (350) feet; thence east a distance of two hundred and fifty (250) feet to the point of beginning.

LEGAL BASIS FOR NOTICE: The Oklahoma Department of Environmental Quality (DEQ) hereby files this Notice of Remediation pursuant to Oklahoma Statute, 27A O.S. § 2-7-123 (C). This Notice does not grant any right to any person not already allowed by law and shall not be construed to authorize or encourage any person or other legal entity to cause or increase pollution, to avoid compliance with state or federal laws and regulations regarding pollution or to escape responsibility for maintaining environmentally sound operations.

REASON FOR NOTICE: The Affected Property was contaminated with materials that required remediation pursuant to state and federal environmental laws and regulations. Sampling performed by DEQ contractors, conducted on November 1, 2011, indicated that there was asbestos, lead-based paint, and lead dust in the building.

REMEDY: Remediation activities ("Remedy") at the Affected Property included abatement of asbestos, lead-based paint and dust. The remedy was completed on April 28, 2014.



I-2014-001538 Book 0388 Pg: 513 05/12/201412:17 pm Pg 0512-0514 Fee: \$ 17.00 Doc. \$ 0.00 Nikki Vardell - Cotton County Clerk State of Oklahoma

Walters Armory

513

For more detailed information please refer to Former National Guard Armory Walters, Oklahoma Remediation Final Report. To obtain a copy of the report, contact:

Oklahoma Department of Environmental Quality Central Records

Mailing Address
P.O. Box 1677
Oklahoma City, Oklahoma 73101

Physical Address 707 N Robinson Oklahoma City, OK 73102

Electronic Address
http://www.deq.state.ok.us/lpdnew/scapIndex.htm

DISCLAIMER:

- (A) Lead: DEQ did not test every painted surface inside and outside of the building, therefore there is a potential for lead-based paint at the affected property.
- (B) Asbestos: DEQ did not test all building materials inside and outside of the building, therefore there is a potential for asbestos at the affected property.

CONTINUING OPERATION, MAINTENANCE AND MONITORING:

(A) Lead-based paint encapsulant: Lead-based paint encapsulant was applied over lead-based paint on non-friction surfaces. These areas should be periodically inspected and maintained as appropriate.

Scott A. Thompson, Executive Director

Oklahoma Department of Environmental Quality

Date

5-5-14

514

I-2014-001538 Book 0388 Pg: 514 05/12/201412:17 pm Pg 0512-0514 Fee: \$ 17.00 Doc: \$ 0.00 Nikki Vardell - Cotton County Clerk State of Oklahoma

Walters Armory

ACKNOWLEDGMENT

STATE OF OKLAHOMA COUNTY OF OKLAHOMA

Before me, a Notary Public, in and for said County and State, on this 5th day of 2014, personally appeared Scott A. Thompson to me known to be the identical person who executed the within and foregoing instrument and acknowledged to me that executed the same as free and voluntary act and deed for the uses and purposed therein set forth. In Testimony Whereof, I have hereunto set my hand and official seal the day and year above written.

My Commission expires:

17 2016.

Notary Public

TERESA MCPHERSON

Noting Public

State of Oklahoma
on # 4000751 Explication 91/17/16

MAINTENANCE PLAN

MAINTENANCE PLAN FORMER WALTERS ARMORY WALTERS, OKLAHOMA

The Armory located at 608 West Missouri Street, Walters, was contaminated with materials that required remediation pursuant to State and Federal environmental laws and regulations. Please refer to Attachment 1 for land use restrictions. Sampling performed by DEQ contractors, conducted on November 1, 2011, indicated that there was asbestos, lead-based paint, and lead dust in the building. Remediation activities at the Affected Property included abatement of asbestos, lead-based paint, and lead dust. The remedy was completed on April 28, 2014. The following maintenance plan is to be completed by the owner of the Affected Property. DEQ recommends inspection of remediated areas every 5 years. During site inspections the owner should note any signs of disrepair or improper maintenance. Continuing operation, maintenance and monitoring should include:

- 1. All window lintels, window sills, and the door lintels in the Drill Floor and Rooms 23, 24, and 25 were scraped and encapsulated with lead-based paint encapsulant. These surfaces need to be re-encapsulated if lead-based paint encapsulant shows signs of deterioration, damage, or flaking. See Attachment 2 for Walters Armory Floor Plan Map.
- 2. All interior and exterior metal overhead door frames, overhead door lintels, modified bollards, and edge protectors were scraped and encapsulated with lead-based paint encapsulant. These surfaces need to be re-encapsulated if lead-based paint encapsulant shows signs of deterioration, damage, or flaking.
- 3. The wood board on top of the wall in the Drill Floor, all I-Beams and ceilings of Rooms 23, 24, and 25, and all bar joists in the Drill Floor were scrapped and encapsulated with lead-based paint encapsulant. These surfaces need to be re-encapsulated if lead-based paint encapsulant shows signs of deterioration, damage, or flaking. See Attachment 2 for Walters Armory Floor Plan Map.

Note -A list of DEQ approved acrylic sealant and elastomeric encapsulants is attached (Attachment 3). DEQ did not test every painted surface and all building materials inside and outside of the building, therefore there is a potential for lead-based paint and asbestos at the affected property.

If you have any questions or concerns feel free to contact me at (405) 702-5112.

Sincerely,

Brittany R. Downs

Environmental Programs Specialist DEQ Land Protection Division

Site Cleanup Assistance Program

ATTACHMENT 1

Land use Restrictions

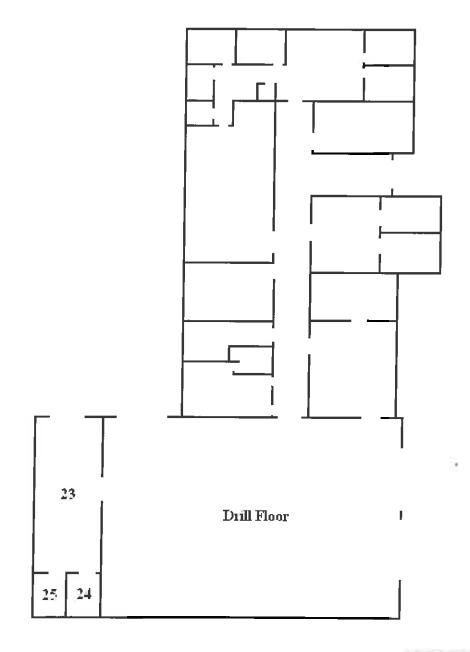
LAND USE RESTRICTIONS: The land use restrictions at the above-described Affected Property are:

There are no land use restrictions that apply to this property.

ATTACHMENT 2

Floor Plan Map

Labeled areas represent locations with encapsulant and/or sealant.



Not to scale Floor plan approximate

ATTACHMENT 3

DEQ Approved Sealants and Encapsulants List

Acrylic Sealant approved by DEQ

KM-669 Acrylic

Lead-Based Paint Encapsulants approved by DEQ

Encapsulant Manufacturer Product(s)	Encapsulant
Coronado Paint Company	LEAD BLOCK TM
Dumond Chemicals	LEAD STOP TM
Dynacraft Industries, Inc.	Back to Nature Protect-A-Coat
Encap Systems Corporation	EncapSeal TM I
Encap Systems Corporation	EncapSeal TM II
Fiberlock Technologies, Inc.	Child GUARD interior/exterior
Fiberlock Technologies, Inc.	L-B-C® Type III
Global Encasement, Inc.	LeadLock TM
Grace Construction Products	Lead Seal®
Grace Construction Products	Barrier Coat® II
Insl-x Products Corporation	INSL-CAP TM
SAFE Encasement Systems	SE-120 Protective Skin
Specification Chemicals, Inc.	NU-WAL® #2500 Coating

INSPECTION REPORTS



ASBESTOS SURVEY REPORT

NATIONAL GUARD ARMORY 608 WEST MISSOURI WALTERS, OKLAHOMA

Enercon Project Number – ENMISC2509

May 3, 2012

Prepared for:

Oklahoma Department of Environmental Quality
Land Protection Division
PO Box 1677
Oklahoma City, Oklahoma 73101-1677
Attention: Mr. Dustin Davidson

Prepared By:

Enercon Services, Inc. 6525 North Meridian, Suite 400 Oklahoma City, Oklahoma 73116

Inspected By:

Richard D. Belcher

Michael lok-

AHERA Asbestos Inspector OK-159310

Reviewed By:

Emmett W. Muenker

AHERA Asbestos Management Planner OK-MP130435

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ASBESTOS SURVEY REPORT

NATIONAL GUARD ARMORY 608 WEST MISSOURI WALTERS, OKLAHOMA

Executive Summary

An asbestos survey of the National Guard Armory, 608 West Missouri, Walters, Oklahoma was conducted on November 1, 2011. The armory consisted of a single building with a large drill room on the south portion with an office wing north of the drill room. During the survey, a total of 48 bulk samples were collected from 20 homogeneous areas. A summary of the asbestoscontaining building materials (ACBMs) is provided below.

Summary of Asbestos-Containing Building Materials

MATERIAL CATEGORY	MATERIAL DESCRIPTION	TOTAL APPROXIMATE AMOUNT	
FRIABLE	Asbestos Piping	250 LF	
TRIABLE	Asbestos Pipe Fittings	25 EA	
CATEGORY I	Floor Tiles/Black Mastic	550 SF	
NON-FRIABLE	Window Glazing	100 LF	
CATEGORY II	Corrugated Transite® Roof Panels	4 700 SE	
NON-FRIABLE	Corrugated Transite Roof Panels	4,700 SF	

SF=Square Feet; LF=Linear Feet; EA=Each

Recommended actions for planned renovation:

Prepare specifications for abatement of friable and non-friable asbestos materials that would be disturbed during renovation activities; solicit bids; award contract and complete abatement.

Recommended actions prior to planned demolition:

Prepare specifications for abatement of all friable asbestos materials; solicit bids; award contract and complete abatement.

Recommended actions for continued operation without removal of all asbestos in the building:

Prepare and implement an Asbestos Management Plan to manage the asbestos in place. This is to include Asbestos Awareness Training for maintenance and custodial personnel.

ASBESTOS SURVEY REPORT

NATIONAL GUARD ARMORY 608 WEST MISSOURI WALTERS, OKLAHOMA

1.0 INTRODUCTION

An asbestos survey of the National Guard Armory, 608 West Missouri, Walters, Oklahoma was conducted on November 1, 2011. The armory consisted of a single building with a large drill room on the south portion with an office wing north of the drill room. The inspection was performed by Richard Belcher, AHERA Inspector OK-159310. Appendix A contains a copy of the Inspector's License.

The purpose of the asbestos survey was to locate, identify, and quantify asbestos containing building materials (ACBMs) present in the facility. The asbestos survey was requested by the Oklahoma Department of Environmental Quality.

2.0 SURVEY PROCEDURES

The survey consisted of visual examination of building components and insulating materials to identify those suspected to contain asbestos. Asbestos-containing materials are divided into three basic groups: Thermal System Insulation (TSI), Surfacing Materials (SM) and Miscellaneous Materials (MM). TSI consists of insulating materials, mastics or sealants used to reduce heat loss or gain on mechanical systems such as piping, ducts, air handlers, boilers, flues, heat exchangers, etc. SM includes materials applied to surfaces other than mechanical systems for purposes such as fireproofing, acoustical insulation and aesthetic finishes. MM are all other materials not included in the other two categories, and include materials such as floor tiles, adhesives, gaskets, caulking compounds and asbestos-cement piping/panels (Transite[®]).

Non-friable ACBM is categorized as either Category I or Category II non-friable material. Category I non-friable ACBM includes packings, gaskets, resilient floor coverings, and asphalt roofing products. Category II non-friable ACBM includes any other non-friable material.

The protocols outlined in the Asbestos Hazard Emergency Response Act (AHERA) were used for this survey. The survey included all building materials that were suspected to contain asbestos, with the exception of the roofing components. Samples were analyzed by QuanTEM Laboratories, an analytical laboratory accredited under the National Voluntary Laboratory Accreditation Program (NVLAP). The analytical method used was Polarized Light Microscopy (PLM) with dispersion staining, as prescribed by the AHERA regulation. It is a method for positive identification of asbestos fibers. Materials determined to contain more than one percent asbestos by laboratory analysis are considered asbestos-containing materials.

The numbering system used for sample identification consisted of three separate components, a facility identifier, a homogeneous area (materials appearing alike in their color, texture and function) number and a sample number.

Rooms in the building were not all identified with room numbers, therefore an arbitrary number was assigned to each room for referencing the locations of samples and asbestos-containing materials identified during the survey. These arbitrary room numbers are used throughout this report and the room locations are shown on the building layouts in Appendix B.

3.0 SURVEY RESULTS

During the survey, a total of 48 bulk samples were collected from 20 homogeneous areas. A summary of the asbestos-containing building materials (ACBMs) is provided below. Appendix B contains site layouts with sample and asbestos locations. Appendix C contains the laboratory reports of analyses/chains of custody.

A summary of asbestos containing building materials, including categorization and quantities, is presented in Table 1. Table 2 provides a summary of the bulk material samples collected, the general location of the materials sampled, the approximate quantity of asbestos-containing materials present in each homogeneous area and the laboratory analytical results.

Table 1
Summary of Asbestos Containing Building Materials

MATERIAL CATEGORY	MATERIAL DESCRIPTION	TOTAL APPROXIMATE AMOUNT	
FRIABLE	Domestic Water Piping Insulation Domestic Water Fitting Insulation	250 LF 25 EA	
CATEGORY I NON-FRIABLE	Floor Tiles/Black Mastic Window Glazing	550 SF 100 LF	
CATEGORY II NON-FRIABLE	Corrugated Transite® Roof Panels	4,700 SF	

SF=Square Feet; LF=Linear Feet

Table 2

Bulk Material Samples & Laboratory Analytical Results

	Dunk Material Samples & Daboratory Analytical Results						
SAMPLE ID	DESCRIPTION & LOCATION	APPROX. AMOUNT	ASBESTOS TYPE/ PERCENT				
WA-01-01,02	2x4 White Ceiling Tiles	NQ	None Detected				
WA-02-01,02	12x12 Cream Floor Tiles	NQ	None Detected				
WA-03-01,02	12x12 Gray Floor Tiles	NQ	None Detected				
WA-04-01,02	12x12 Peach/Green Floor Tiles	NQ	None Detected				
WA-05-01,02	12x12 Peach/Green over Tan 12 x12 Floor Tiles	NQ	None Detected				
WA-06-01	Window Glazing	100 LF	2% Chrysotile				
WA-07-01,02,03	Domestic Cold Water Line Insulation-Office	125 LF	30-40% Chrysotile				
WA-08-01,02,03	Domestic Cold Water Fittings-Office Wing	13 LF	7-10% Chrysotile				
WA-09-01,02,03	White Wall Texture	NQ	None Detected				
WA-10-01,02	Drywall	NQ	None Detected				
WA-11-01,02, 03	Drywall Joint Compound	NQ	None Detected				
WA-12-01,02, 03	Domestic Hot Water Line Insulation-Office Wing	125 LF	45-55% Chrysotile				
WA-13-01,02,03	Domestic Hot Water Fittings-Office Wing	12 EA	8-10% Chrysotile				
WA-14-01,02	Carpet Mastic	NQ	Not Detected				
WA-15-01,02	Gray 9x9 Floor Tiles/Black Mastic-Rooms 11-13	550 SF	3-8% Chrysotile				
WA-16-01,02,03	Wall Texture	NQ	None Detected				
WA-17-01,02,03	Ceiling Texture	NQ	None Detected				
WA-18-01,02	Joint Compound	NQ	None Detected				
WA-19-01,02	Dry Wall	NQ	None Detected				
WA-20-01,02	Roofing/Ceiling material	NQ	None Detected				
WA-21-PACM	Corrugated Transite® Roof Panels-Drill Room	4,700 SF	30%-40%Chrysotile				

SF=Square Feet, LF=Linear Feet, EA = Each, NQ=Not Quantified; CS=Confirmation Sample

4.0 CONCLUSIONS & RECOMMENDATIONS

The asbestos-containing building materials present consisted of both friable and non-friable materials. The locations of these materials are shown on the layout in Appendix B.

Friable Asbestos-Containing Materials:

- Domestic Hot and Cold Water Line and Fitting Insulation: Approximately 250 LF of piping with approximately 25 fittings in good condition were present above ceilings and inside walls/chases.

Non-friable Asbestos-Containing Materials:

- <u>Floor Tiles/Black Mastic</u>: Approximately 550 SF of asbestos-containing black mastic was present beneath non-asbestos floor tiles and/or carpet in the Computer lab, FDC, and ALOC/NBC rooms (Rooms 11, 12 and 13).
- Window Glazing: Approximately 100 LF of widow glazing was present on the exterior windows.
- <u>Corrugated Transite[®] Roof Panels</u>: The roof above the drill room consisted of approximately 4,700 SF of corrugated Transite[®] roof panels.

<u>Recommendations for Friable Asbestos-containing Materials</u>: The following recommendations are made for addressing friable materials. Disturbance of these materials is regulated by the Oklahoma Department of Labor.

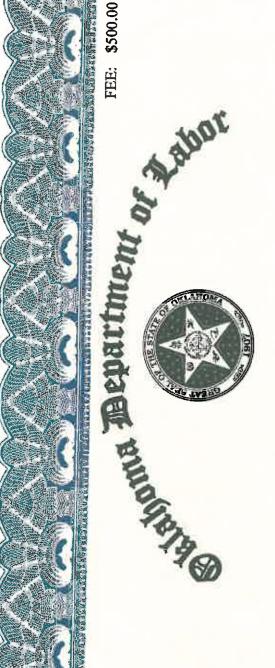
- 1. <u>Planned renovation and maintenance activities that could disturb friable asbestos</u>: Prepare specifications for abatement that would be disturbed during renovation activities; solicit bids; award contract and complete abatement.
- 2. <u>Planned demolition</u>: Prepare specifications for abatement of all friable asbestos materials; solicit bids; award contract and complete abatement.
- 3. <u>Continued operation without abatement of friable asbestos</u>: Prepare and implement an Asbestos Management Plan to manage the asbestos in place. This is to include Asbestos Awareness Training for maintenance and custodial personnel.

Recommendations for Non-friable Asbestos-containing Materials: The only non-friable asbestos present was black floor tile mastic located beneath non-asbestos floor tiles and the corrugated Transite® roof over the drill room. These materials containing asbestos are not regulated unless they are disturbed in a manner that renders them friable. However, if they are to be removed, removal may only be performed by workers who are properly trained. Removal of the floor tiles will disturb the mastic; therefore, both the tiles and mastic must be removed by properly trained personnel. The following actions are recommended for addressing non-friable materials:

- 1. <u>Planned renovation</u>: Prepare specifications for abatement of non-friable asbestos materials that would be disturbed during renovation activities; solicit bids; award contract and complete abatement.
- 2. <u>Planned demolition</u>: Non-friable materials present may remain in place during demolition activities and may be disposed as ordinary demolition/construction waste.
- 3. <u>Continued operation without abatement of remaining asbestos</u>: Prepare and implement an Asbestos Management Plan to manage the asbestos in place. This is to include Asbestos Awareness Training for maintenance and custodial personnel.

APPENDIX A





Emmett Muenker

has filed in the office of the Commissioner of Labor of the State of Oklahoma an application for a Limited Asbestos Contractor's license for

AHERA MANAGEMENT PLANNER

Now, therefore, The Commissioner of Labor of the State of Oklahoma, by virtue of the power vested in him by law hereby issues to the applicant license No. OK-MP130435.

Mark Cortello

MARK COSTELLO

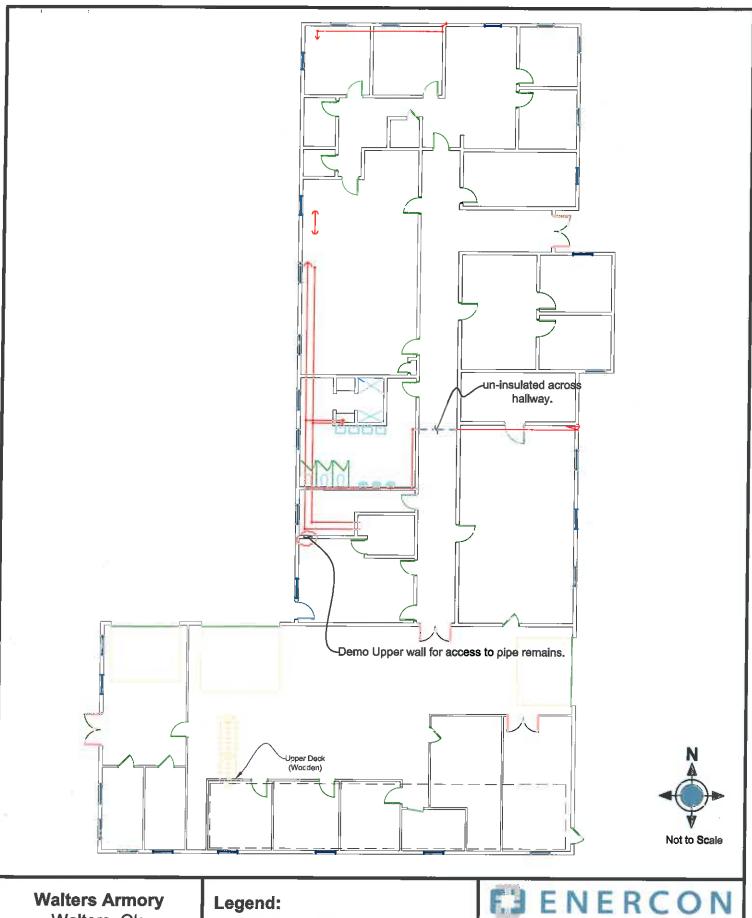
Commissioner of Labor

Date of Issuance

March 14, 2011

EXPIRES: March 04, 2012

APPENDIX B



Walters, Ok. Main Building

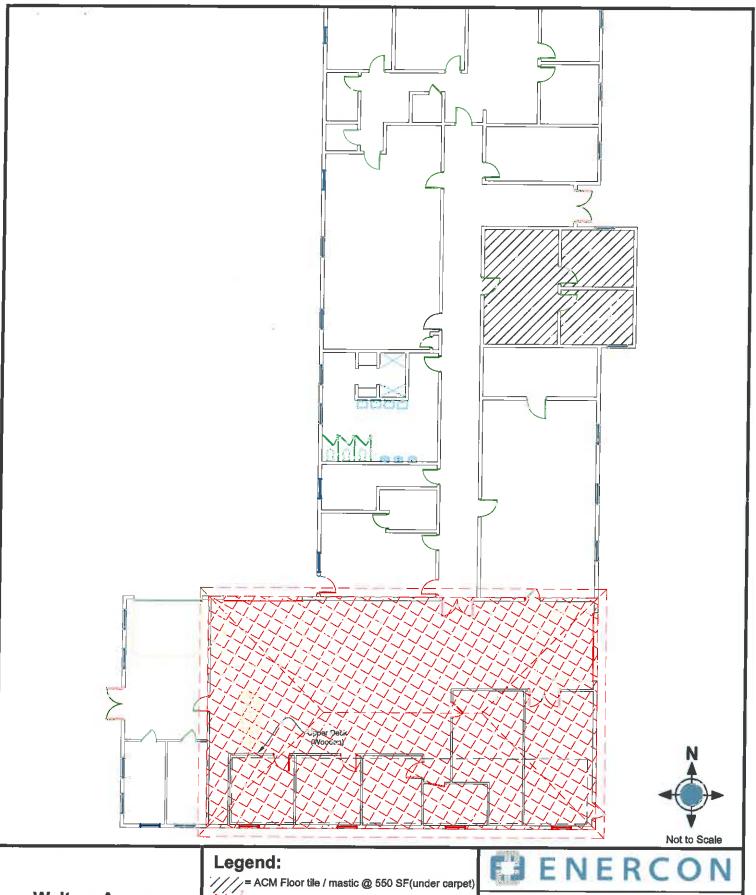
- ACM Piping @ 250 LF

= ACM Piping Fittings @ 25 each.



Asbestos Piping Locations

Drawn By: Richard Belcher

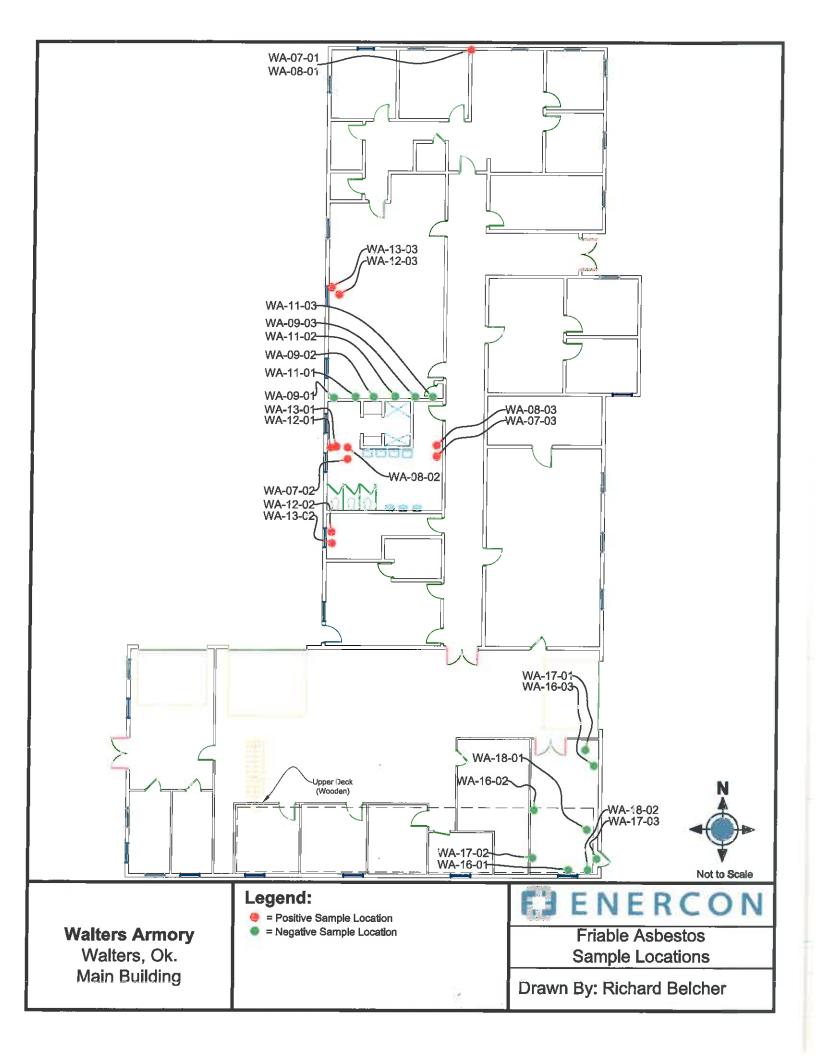


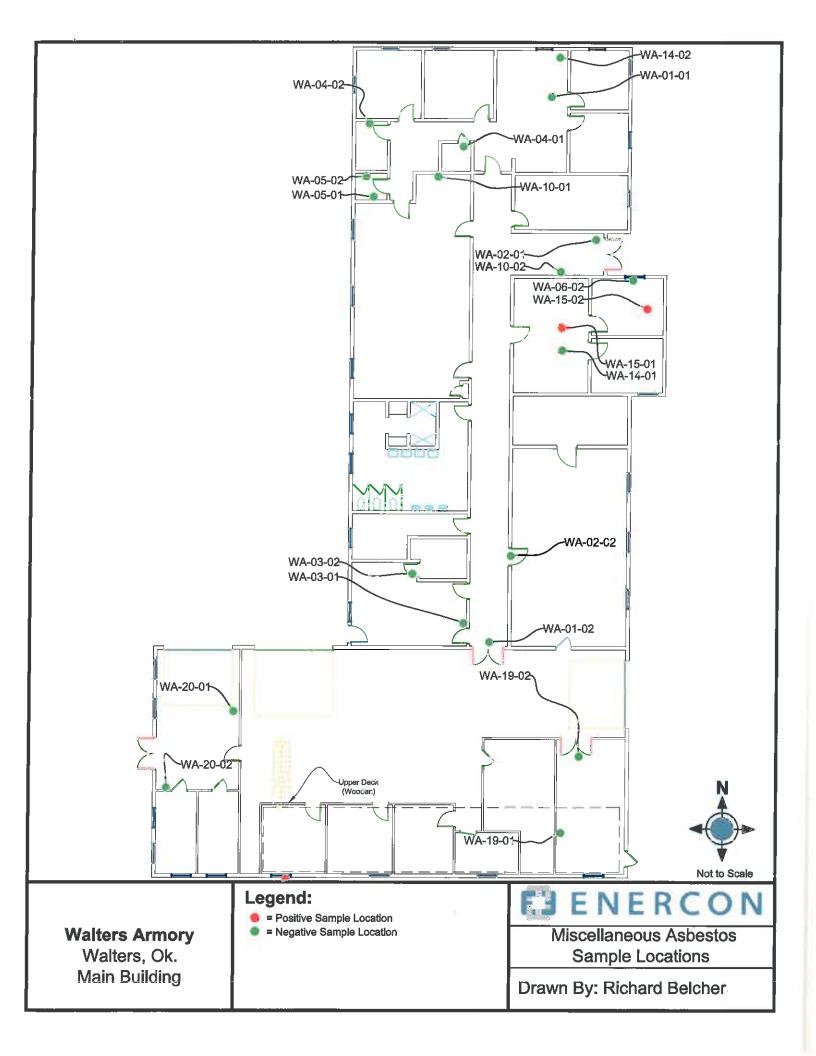
Walters Armory Walters, Ok. Main Building

= Transite roofing Panels @ 4,700 SF

Miscellaneous Asbestos Locations

Drawn By: Richard Belcher





APPENDIX C



Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 201394

Account Number: A845

Date Received:

11/03/2011

Received By:

Barbara Holder

Date Analyzed:

Methodology:

11/04/2011

Analyzed By:

Gayle Ooten

EPA/600/R-93/116

Client: Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Project: Walters Armory REVISED

Project Location: Walters, OK 608 W-Missouri

Project Number: N/A

	O	Client		Color /		Non-Asbestos		NY 1721
	QuanTEM Sample ID	Sample ID	Composition	Description	Asbestos (%)	Fiber (%)		Non Fibrous
_	001	WA-1-01	Homogeneous	White	Asbestos Not Present	Cellulose	30	Binder
				Ceiling Tile	53	Glass Fiber	30	Perlite
					9			
	002	WA-1-02	Homogeneous	White	Asbestos Not Present	Cellulose	30	Paint
				Ceiling Tile		Glass Fiber	30	Perlite
	003	WA-2-01	Layered	Cream	Asbestos Not Present	NA		Vinyl
				Floor Tile	181	0		CaCO3
			5					
	003a		Layered	Yellow	Asbestos Not Present	· NA		Glue
				Mastic	- 1			
			ta a			74		
	003ь		Layered	Gray	Asbestos Not Present	Cellulose	2	CaCO3
		6		Leveling Compound				Binder
				76 #		•		
	004	WA-2-02	Layered	Cream	Asbestos Not Present	Cellulose	3	Vinyl
				Floor Tile				CaCO3
		/44			Fig. 1			2.
	004a		Layered	Yellow	Asbestos Not Present	NA		Glue
				Mastic	*	a Z		

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.



Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 201394

A845

Account Number:

Date Received:

11/03/2011

Received By:

Barbara Holder

Date Analyzed:

11/04/2011

Gayle Ooten

Analyzed By: Methodology:

EPA/600/R-93/116

Walters Armory REVISED

Project Location:

Walters, OK 608 W-Missouri

Client: Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Project Number:

OuanTEM Client Color / Non-Asbestos Non Fibrous Sample ID Sample ID Composition Description Asbestos (%) Fiber (%) 004b Gray Asbestos Not Present NA Layered Quartz CaCO3 Leveling Compound Binder 005 WA-3-01 Layered Beige Asbestos Not Present NA Vinyl CaCO3 Floor Tile 005a Yellow Asbestos Not Present NA Glue Layered Mastic 006 WA-3-02 Layered Beige Asbestos Not Present NA Vinyl CaCO3 Floor Tile 006a Yellow Asbestos Not Present NA Glue Layered Mastic 007 WA-4-01 Pink **Asbestos Not Present** Layered NA Vinyl CaCO3 Floor Tile 007a Layered Yellow **Asbestos Not Present** Glue NA

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Mastic



Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 201394

Account Number:

A845

Date Received:

11/03/2011

Received By:

Barbara Holder

Date Analyzed:

11/04/2011

Analyzed By: Methodology: Gayle Ooten

EPA/600/R-93/116

Project: Walters Armory REVISED

Client: Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Project Location: Walters, OK 608 W-Missouri

Project Number: N/A

	5.0						
	QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
_	008	WA-4-02	Layered	Pink Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
		¥(ii)					
	008a 💮		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
					0.0		
	008ь		Layered	Gray Leveling Compound	Asbestos Not Present	NA	CaCO3 Binder
	009	WA-5-01	Layered	Pink Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
		4	Y		6 8		
	·009a		Layered	Yellow Mastic	Asbestos Not Present	Cellulose <1	Glue
		- 12		. N . A			
e nd	009Ь		Layered	White Floor Tile	Asbestos Not Present	NA **	Vinyl CaCO3
	009с		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.



Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 201394

A845

Account Number:

Date Received: Received By:

11/03/2011

Date Analyzed:

Barbara Holder

Analyzed By:

11/04/2011

Gayle Ooten

Methodology:

EPA/600/R-93/116

Client: Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Project: Walters Armory REVISED

Project Location: Walters, OK 608 W-Missouri

Project Number: N/A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
010	WA-5-02	Layered	Pink Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
				15		
010a		Layered	Yellow Mastic	Asbestos Not Present	Cellulose <1	Glue
		55				
010b		Layered	White	Asbestos Not Present	NA	Vinyl CaCO3
	W ₂₀		Floor Tile			Cacos
		n _e ,	0	4		
010c		Layered	Yellow	Asbestos Not Present	NA	Glue
	18	11 2	Mastic	50 - 50		
			83			
011	WA-6-01	Homogeneous	Gray Window Glazing	Asbestos Present Chrysotile	NA 2	CaCO3 Binder
		20	0.00	•	((
012	WA-6-02	Layered	Gray Caulk	Asbestos Not Present	» NA	CaCO3 Binder
			15			
01 2 a		Layered	Red Window Glazing	Asbestos Not Present	NA	CaCO3 Binder

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.



Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 201394

Client: Enercon Services, Inc.

Account Number:

A845

6525 N. Meridian, Suite 400 Oklahoma City, OK 73116

Date Received:

11/03/2011

Received By:

Barbara Holder

Date Analyzed:

11/04/2011

Project:

Walters Armory REVISED

Analyzed By:

Gayle Ooten

Project Location:

Walters, OK 608 W-Missouri

Methodology:

EPA/600/R-93/116

Project Number: N/A

QuanTEM Client Color / Non-Asbestos Non Fibrous Sample ID Sample ID Composition Description Fiber (%) Asbestos (%) 013 WA-7-01 Asbestos Present Cellulose Layered Gray 15 Binder Chrysotile 40 Pipe Insulation 013a Layered Tan Asbestos Not Present Cellulose Binder Pipe Insulation 014 WA-7-02 Layered Asbestos Present Gray Cellulose Binder 20 Chrysotile 35 Pipe Insulation 014a Layered Tan Asbestos Not Present Cellulose Binder 95 Pipe Insulation 015 WA-7-03 Gray Layered Asbestos Present Cellulose 35 Binder Chrysotile 35 Pipe Insulation 015a Tan Layered Asbestos Not Present Cellulose 95 Binder Pipe Insulation 015b Black Layered Asbestos Not Present Cellulose 35 Tar Paper

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.



Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 201394

Account Number:

A845

Date Received:

11/03/2011

Received By: Date Analyzed: Barbara Holder

Analyzed By:

Methodology:

11/04/2011

Gayle Ooten

EPA/600/R-93/116

Client: Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Project: Walters Armory REVISED

Project Location: Walters, OK 608 W-Missouri

Project Number: N/A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
016	WA-8-01	Homogeneous	Gray · Pipe Insulation	Asbestos Present Chrysotile 7	Glass Fiber 25	CaCO3 Binder
017	WA-8-02	Homogeneous	Gray Pipe Insulation	Asbestos Present Chrysotile 8	Glass Fiber 25	CaCO3 Binder
018	WA-8-03	Homogeneous	Gray Pipe Insulation	Asbestos Present Chrysotile 10	Glass Fiber 25	CaCO3 Binder
019	WA-9-01	Homogeneous	White Wall Texture	Asbestos Not Present	Cellulose <1	CaCO3 Paint
020	WA-9-02	Homogeneous	White Wall Texture	Asbestos Not Present	NA ==	CaCO3 Paint
021	WA-9-03	Homogeneous	White Wall Texture	Asbestos Not Present	Cellulose <1	CaCO3 Paint
022	WA-10-01	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose 3	Gypsum

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Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 201394

Account Number:

A845

Date Received: Received By:

11/03/2011

Date Analyzed:

Barbara Holder

Analyzed By: Methodology: 11/04/2011

Gayle Octen

EPA/600/R-93/116

Client: Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Project: Walters Armory REVISED

Project Location: Walters, OK 608 W-Missouri

Project Number: N/A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
023	WA-10-02	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose 3	Gypsum
024	WA-11-01	Homogeneous	White Joint Compound	Asbestos Not Present	NA	CaCO3 Binder
025	WA-11-02	Homogeneous	White Joint Compound	Asbestos Not Present	NA	CaCO3 Binder
026	WA-11-03	Homogeneous	White Joint Compound	Asbestos Not Present	NA	CaCO3 Binder
027	WA-12-01	Layered	Gray Pipe Insulation	Asbestos Present Chrysotile 45	Cellulose 15	Binder
027a		Layered .	Tan Pipe Insulation	Asbestos Not Present	Cellulose 95	Binder
028	WA-12-02	Layered	Gray Pipe Insulation	Asbestos Present Chrysotile 45	Cellulose 20	Binder

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Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 201394

Account Number:

A845

Date Received: Received By:

11/03/2011

Barbara Holder

Date Analyzed: Analyzed By:

Methodology:

11/04/2011

Gayle Ooten

EPA/600/R-93/116

Client: Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Project: Walters Armory REVISED

Project Location:

Walters, OK 608 W-Missouri

Project Number: N/A

QuanTEM Client Color / Non-Asbestos Non Fibrous Sample ID Sample ID Composition Description Asbestos (%) Fiber (%) 028a Tan Layered Asbestos Not Present Cellulose 95 Binder Pipe Insulation 028b Layered Black Asbestos Not Present Cellulose 35 Tar Tar Paper 029 WA-12-03 Layered Gray Asbestos Present Cellulose Binder Chrysotile 55 Pipe Insulation 029a Layered Tan Asbestos Not Present Cellulose 95 Binder Pipe Insulation 030 WA-13-01 Homogeneous Gray Asbestos Present Glass Fiber CaCO3 Binder Chrysotile 10 Pipe Insulation 031 WA-13-02 Homogeneous Grav Asbestos Present Glass Fiber CaCO3 Binder Pipe Insulation Chrysotile 10 WA-13-03 032 Homogeneous Gray Asbestos Present Glass Fiber 25 CaCO3 Chrysotile 8 Binder Pipe Insulation

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 201394

Account Number:

A845

Date Received: Received By:

11/03/2011

Date Analyzed:

Barbara Holder

Analyzed By:

11/04/2011

Gayle Ooten

Methodology:

EPA/600/R-93/116

Client: Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Project: Walters Armory REVISED

Project Location: Walters, OK 608 W-Missouri

Project Number: N/A

_	QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
	033	WA-14-01	Homogeneous	Yellow Carpet Mastic	Asbestos Not Present	, NA	Glue
	034	WA-14-02	Homogeneous	Yellow	Asbestos Not Present	NA	Glue
				Carpet Mastic	11 /5		
	035	WA-15-01	Layered	Yellow	Asbestos Not Present	NA	Glue
				Mastic ·		-	
		16					
	035a		Layered	Gray	Asbestos Present	NA.	Vinyl
				Floor Tile	Chrysotile 8		CaCO3
					141		
	035Ъ		Layered	Black	Asbestos Present	NA	Tar
				Mastic	Chrysotile 3		
				× 4	2 2		
	036	WA-15-02	Layered	Yellow	Aspestos Not Present	NA	Glue
				Mastic		_	
		9 41	7)		4		
	036a		Layered	Gray	Asbestos Present	NA NA	Vinyl
				Floor Tile	Chrysotile 8		CaCO3

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 201394

Account Number:

A845

Date Received: Received By:

11/03/2011

Date Analyzed:

Barbara Holder

Analyzed By:

11/04/2011.

Gayle Ooten

Methodology:

EPA/600/R-93/116

Client: Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Project: Walters Armory REVISED

Project Location: Walters, OK 608 W-Missouri

Project Number: N/A

				(4 ii			
QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	17.	Non-Asbestos Fiber (%)	Non Fibrous
036b		Layered	Black Mastic	Asbestos Not Present	0	NA	Tar
037	WA-16-01	Homogeneous	White Wall Texture	Asbestos Not Present		NA	CaCO3 Paint
038	WA-16-02	Homogeneous	White Wall Texture	Asbestos Not Present	060	NA ⁴	CaCO3 Paint
039	WA-16-03	Homogeneous	White Wall Texture	Asbestos Not Present		NA NA	CaCO3 Paint
040	WA-17-01	Homogeneous	White Ceiling Texture	Asbestos Not Present		NA	CaCO3 Paint
041	WA-17-02	Homogeneous	White Ceiling Texture	Asbestos Not Present	(#) (T)	NA	CaCO3 Paint
042	WA-17-03	Homogeneous	White Ceiling Texture	Asbestos Not Present	ı.	NA ES	CaCO3 Paint

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

QuanTEM is a NVLAP accredited TEM and PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any other agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.



Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 201394

Account Number: A845

Date Received: Received By:

11/03/2011

Barbara Holder

Date Analyzed:

11/04/2011

Analyzed By: Methodology: Gayle Ooten EPA/600/R-93/116

Client: Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Walters Armory REVISED

Project Location: Walters, OK 608 W-Missouri

Project Number: N/A

QuanTEM Client Color / Non-Asbestos Non Fibrous Sample ID Sample ID Composition Description Asbestos (%) Fiber (%) 043 WA-18-01 Homogeneous White Asbestos Not Present NA CaCO3 Binder Joint Compound 044 WA-18-02 Homogeneous White Asbestos Not Present NA CaCO3 Joint Compound Binder 045 WA-19-01 Homogeneous White Asbestos Not Present Cellulose Gypsum Sheetrock 046 WA-19-02 Homogeneous White Asbestos Not Present Cellulose Gypsum Sheetrock 047 WA-20-01 Homogeneous White Asbestos Not Present Cellulose Gypsum KAYLO Block 048 WA-20-02 Homogeneous White Asbestos Not Present Cellulose Gypsum KAYLO Block

Gayle Ooten, Analyst

11/14/2011 Date of Report

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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Aspestos Chain-of-Custody

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(800) 822-1650 (405).755-7272 Fax: (405) 755-2058 www.quantam.com

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> Project Number: Acct.#: B Project Location: Walkers OF 608 W Missauri Company Name. Espace and Sour Lees.

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A QuanTEM Website

SURVEY AND ASSESSMENT FOR LEAD IN PAINT AND SETTLED DUST

NATIONAL GUARD ARMORY 608 WEST MISSOURI STREET WALTERS, OKLAHOMA 73572

ENERCON Project Number ENMISC2509 April 5, 2012

Oklahoma Department of Environmental Quality
Land Protection Division
PO Box 1677
Oklahoma City, Oklahoma 73101-1677
Attention: Mr. Dustin Davidson



Enercon Services, Inc.

6525 North Meridian Avenue, Suite 400 Oklahoma City, Oklahoma 73116 Phone: (405) 722-7693

Fax: (405) 722-7694

Prepared By:

Marshall L. Branscum Environmental Scientist

LBP Inspector, OKINSR13415

OKRASR11260

Reviewed By:

Emmett W. Muenker Senior Project Manager LBP Risk Assessor,

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Appendix B		Photographic Record of Representative Building Components with LBP					
Appendix C		Dust Wipe Laboratory Report and Chain of Custody					
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Appendi	ix E	XRF Performance Characteristics Sheets					
Appendi	ix F	Lead-Based Paint Inspector, Risk Assessor, and Firm Licenses					



EXECUTIVE SUMMARY

Enercon Services, Inc. (ENERCON) has completed a Survey and Assessment for Lead in Paint and Settled Dust (Survey) at the Walters National Guard Armory, 608 West Missouri Street, Walters, Oklahoma. The survey was conducted on November 1, 2011 by Mr. Marshall Branscum of ENERCON.

The Survey and Assessment included non-destructive sampling of representative paint surfaces in the armory using an X-ray Fluorescence (XRF) Analyzer and dust wipe samples. Dust wipe samples were collected from the floor in each room using EPA/HUD wipe sampling protocols.

The results of XRF sampling indicated the following:

- Interior: All metal roll-up door frames; the brown door frame in Room 23; the black door frame in Room 15; the gray door, metal bar joists, lintel on Side C and the wood boards at the top of the wall on Sides B and D in Room 16; the white-painted lintel on Side B, Room 16; and the I-beam and kaylo ceiling in Room 23 were coated with LBP.
- Exterior: All metal roll-up doors; all yellow window frames on Sides B, C and D of the drill room end of the building; the red-painted metal modified bollards on Sides A and D; the yellow-painted metal edge protectors on Sides A and D; the yellow-painted metal roll-up door lintel on Sides A and D; the yellow-painted wood and metal window lintels on Sides B, C and D; the brown-painted metal door lintel on Side D; the yellow-painted metal roll-up door lintels; and the gray-painted wood window lintels on Side D were coated with LBP.

The results of wipe samples collected from the floors revealed:

Lead contamination above 40 µg/ft² was present in ten rooms; specifically, Rooms 14, 16, 17, 18, 19, 20, 21, 23, 24, and 25.

1.0 INTRODUCTION

Enercon Services, Inc. (ENERCON) has completed a Survey and Assessment for Lead in Paint and Settled Dust (Survey) at the Walters National Guard Armory, 608 West Missouri Street, Walters, Oklahoma. The inspection was conducted on November 1, 2011 by Mr. Marshall Branscum of ENERCON.

The Walters National Guard Armory was constructed on a concrete slab-on-grade foundation with flat roofs covered with tar and gravel over the office areas and a pitched roof covered with transite over the Drill Room. The exterior walls are brick. The interior walls were brick, concrete block, wood paneling, painted gypsum board, and vinyl-covered gypsum board.

The building contained a large central drill room with offices and other rooms located north of the drill room. Rooms had been added along the south wall of the drill room. Layouts are included in Appendix A.

The Survey was performed to identify the locations, condition and estimated quantities of Lead-Based Paint (LBP) and lead-laden settled dust in the Armory.

2.0 METHODOLOGY

The survey included visual observations, photographic documentation (Appendix B), dust wipe samples (Appendix C), and x-ray fluorescence (XRF) measurements of suspect Lead-Based Paint (LBP) (Appendix D). A visual inspection was performed in all rooms and the exterior of the building. The purpose of the visual inspection was to identify similarly painted surfaces so that representative XRF measurements could be made. These surfaces were determined by differentiating them by color, component and room. XRF measurements were then obtained for each building component type in each room and on each side of the building exterior. The criterion used for determination of the presence of LBP on painted surfaces was the EPA threshold for XRF readings as equal to or greater than 1.0 milligram per square centimeter (mg/cm²).

One dust wipe sample was obtained in each room except for the drill room, where three samples were obtained. The criterion used for dust wipe samples was based upon sampling according the EPA/HUD criteria for wipe samples, and laboratory analysis where the lead concentration is equal to or greater than 40.0 micrograms per square foot $(\mu g/ft^2)$.

The presence of LBP was determined using a Niton Model XLp-703A XRF (X-Ray Fluorescence) Analyzer, Serial Number 24295. At power-up, the unit performed routine internal calibration and operational checks. It was then checked for reading accuracy using a 1.0 mg/cm² standard paint chip supplied by the manufacturer by a series of three measurements of the standard paint chip. This calibration was done immediately prior to use, at least every four hours of operation and prior to shut down each day of use. The Performance Characteristic Sheet for the XLp-703A is provided in Appendix E of this report. The location, component, substrate, color and other relevant information



regarding the sample was entered into the XRF using the touchpad on the instrument as each measurement was made. Upon completion of the measurements, the data was downloaded into an Excel spreadsheet using software provided by the analyzer manufacturer. The Excel spreadsheet is provided in Appendix D of this report. Some corrections of the downloaded data were made due to obvious keypad entry errors. Due to the sensitivity of the proximity sensor on the XRF, a number of null readings resulted, particularly when attempting to sample rough or uneven painted surfaces. These readings were not deleted from the spreadsheet in order to maintain the continuity of the sample numbers.

Each room was given an arbitrary number on a building floor plan. The sides of the rooms and the building exterior were designated by letters with street address side labeled as "Side A," and the remaining sides denoted as B, C and D following a clockwise pattern.

The actual number of XRF measurements completed was dependent upon the different painted components and colors of paint present. The XRF instrument measures all layers of paint present at the sampling location. Therefore, the XRF instrument returns a positive reading even through layers of non-lead paint that have been applied when a layer of LBP exists on the component.

The condition of painted surfaces was recorded during the survey and is discussed in the Results Section below.

3.0 RESULTS

3.1 <u>Lead-Based Paint</u>

A total of 226 XRF samples were collected, including calibration and null readings. Figure 1 in Appendix A shows the location of the components with LBP. Tables 1, 2, and 3 provide a summary of building components with LBP as identified by XRF sampling along with their locations and sizes. Components determined to be the same as those sampled were identified by reference to have LBP. The painted surfaces sampled during the survey ranged from intact to poor condition. Representative photographs were taken of components where positive readings (1.0 mg/cm² or greater) were obtained and are provided in Appendix B.

The results of XRF sampling indicated the following building components were coated with LBP:

Interior Components:

- All metal roll-up door frames
- Brown door frame, Room 23
- Black door frame in Room 15
- Gray door, metal bar joists, lintel, Side C
- Wood Boards at the top of the walls, Room 16, Sides B and D
- White-painted lintel, Room 16, Side B
- I-beam and kaylo ceiling, Room 23

Exterior Components:

- All metal roll-up doors
- All yellow window frames, Sides B, C and D of drill room end of the building
- Red-painted metal modified bollards, Sides A and D
- Yellow-painted metal edge protectors, Sides A and D
- Yellow-painted metal roll-up door lintel, Sides A and D
- Yellow-painted wood and metal window lintels, Sides B, C and D of drill room end of building
- Brown-painted metal door lintel, Side D
- Yellow-painted metal roll-up door lintels
- Gray-painted wood window lintels, Side D

Table 1 -Lead-Based Paint Locations (XRF + Referenced*)

Doors and Door Frames

Doors and Door Frames					
Identified Lead- Based Paint (Color/Description)	Lead Content (mg/cm²)	Location	Size of Door/Frame		
Red/Roll-up Door	1.5	Room 16, Side A, Exterior	168" x 168"		
Red/Roll-up Door	3.2	Room 17, Side A, Exterior	168" x 168"		
Beige/Roll-up Door Frame	3.2	Room 16, Side A	168" x 168" (2)		
Red/Roll-up Door	2.9	Room 16, Side D, Exterior	168" x 167"		
Beige/Roll-up Door Frame	2.9	Room 16, Side D	168" x 167"		
Red/Roll-up Door	*	Room 23, Side D, Exterior	144" x 132"		
Beige/Roll-up Door Frame	*	Room 23, Side D, Exterior	144" x 132"		
Brown/Door Frame	1.8	Exterior, Side A	39" x 86"		
Brown/Door Frame	2.2	Exterior, Side C	75" x 84"		
Black/Door Frame	1.2	Room 15, Side C	36" x 84"		
Gray/Door	1	Room 16, D	36" x 84"		

^{*}Not tested, assumed positive by reference to other similar components painted the same color that tested positive.

Table 2 –Lead-Based Paint Locations (XRF + Referenced*)
Window Frames

Window Frames					
Identified Lead- Based Paint (Color/Description)	Lead Content (mg/cm²)	Location	Size and Number of Windows		
Yellow/Window Frame	1.7	Exterior, Side B	45" x 34"		
Yellow/Window Frame	2.8	Exterior, Side B	45" x 34"		
Yellow/Window Frame	1.7	Exterior, Side C	45" x 34" (2)		
Yellow/Window Frame	1.7	Exterior, Side C	45" x 34"		
Yellow/Window Frame	2.8	Exterior, Side C	45" x 34"		
Yellow/Window Frame High Bay	4.6	Exterior, Side B	45" x 33" (2)		
Yellow/Window Frame High Bay	2.9	Exterior, Side B	45" x 33" (2)		
Yellow/Window Frame High Bay	4	Exterior, Side D	45" x 33" (3)		

Table 3 –Lead-Based Paint (XRF)
Other Surfaces/Components

Identified Lead- Based Paint (Color)	Lead Content (mg/cm²)	Location	Surface/Components
Red	15.2	Exterior, Side A	Modified Bollard (Metal)
Red	27.8	Exterior, Side A	Modified Bollard (Metal)
Red	15.6	Exterior, Side A	Modified Bollard (Metal)
Red	20.5	Exterior, Side A	Modified Bollard (Metal)
Yellow	7.5	Exterior, Side A	Edge Protector (Metal)-(2)
Yellow	9.4	Exterior, Side A	Edge Protector (Metal)-(2)
Yellow	7.6	Exterior, Side A	Edge Protector (Metal)-(2)
Yellow	7.9	Exterior, Side A	Door Roll Up Lintel (Metal) -(2)
Brown	2.7	Exterior, Side A	Door Lintel (Metal)
Yellow	2.6	Exterior, Side B	Window Lintel (Metal)

Yellow	6.3	Exterior, Side B	Window Lintel (Metal)
Yellow	3.5	Exterior, Side B	Window Lintel High Bay (Wood)-(2)
Yellow	3.9	Exterior, Side B	Window Lintel High Bay (Wood)
Yellow	2.6	Exterior, Side B	Window Lintel High Bay (Wood)
Yellow	3.8	Exterior, Side C	Window Lintel (Metal)-(4)
Brown	3.1	Exterior, Side C	Door Lintel (Metal)
Brown	6.3	Exterior, Side D	Door Lintel Roll Up (Metal)
Red	16.8	Exterior, Side D	Modified Bollard (Metal)-(4)
Yellow	11.1	Exterior, Side D	Edge Protector (Metal)-(2)
Yellow	2.3	Exterior, Side D	Edge Protector (Metal)-(2)
Gray	3.9	Exterior, Side D	Window Lintel High Bay (Wood)-(3)
Gray	11.8	Room 16	Bar Joist (Metal)
Gray	10.8	Room 16	Bar Joist (Metal)
Gray	5.5	Room 16	Bar Joist (Metal)
Gray	3.2	Room 16, Side B	Board On Top of Wall (Wood)
Gray	4.7	Room 16, Side D	Board On Top of Wall (Wood)
White	5.5	Room 16, Side C	Lintel (Metal)
Gray	5.6	Room 23	I-Beam (Metal)
Gray	3	Room 23	Ceiling (Kaylo)

NOTE: Many components were not tested and were assumed positive by reference to other similar components painted the same color that tested positive. These components were not listed in this table; however, their locations are noted on Figure 1 in Appendix A.

3.2 <u>Dust Wipe Samples</u>

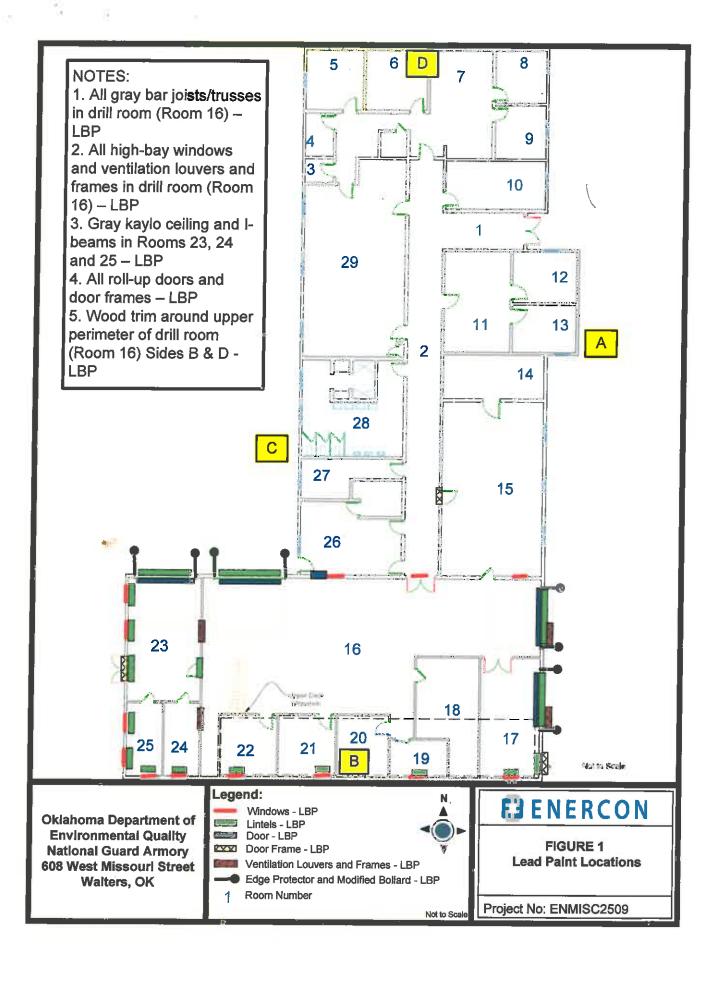
Dust wipe samples were obtained following the EPA/HUD protocol. A template measuring one square foot was used to provide a known sampling area. Concentrations of $40.0~\mu g/ft^2$ or greater are considered contaminated, in accordance with HUD/EPA guidelines. One dust wipe sample was obtained in each room except for the drill room, where three samples were collected. A total of 31 wipe samples were collected.

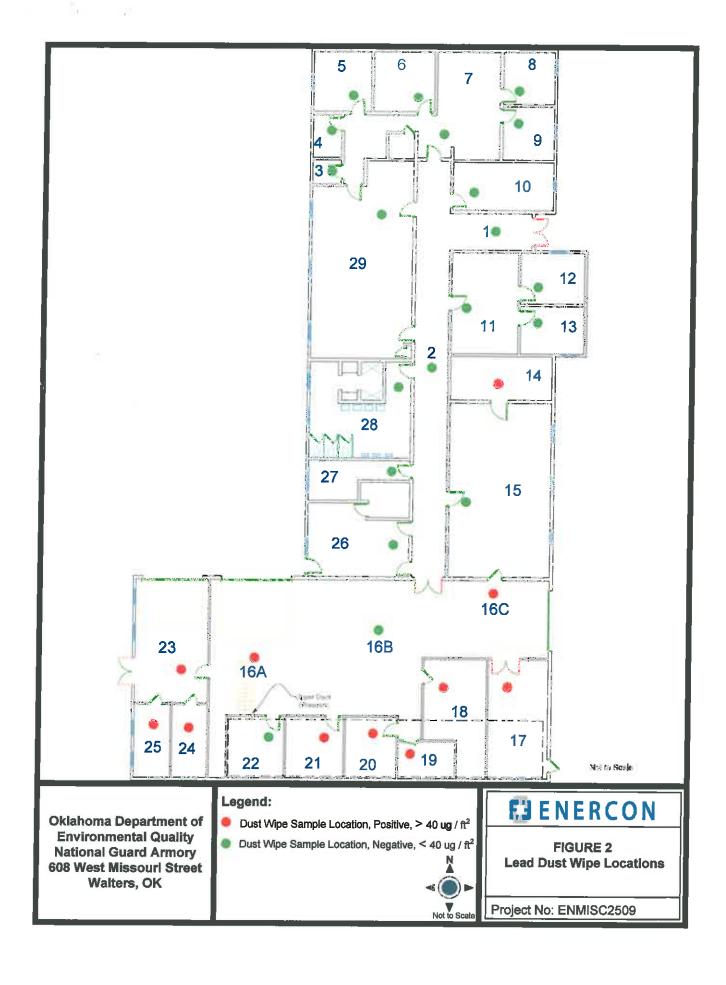
Laboratory results from the dust wipe samples are presented in Appendix C. Ten rooms had lead dust contamination above the threshold. The locations determined by laboratory analysis to be contaminated with lead dust are listed in Table 4 and on Figure 2 in Appendix A.

Table 4 – Positive Dust Wipe Locations

Sample Number	Lead Content (µg/ft²)	Location	Square Footage of Positive Location
WA-14	176	Room 14	189
WA-16	57.4, 51.9	Room 16	1726
WA-17	118	Room 17	308
WA-18	52.8	Room 18	266
WA-19	89.3	Room 19	88
WA-20	56.0	Room 20	136
WA-21	138	Room 21	150
WA-23	72.5	Room 23	386
WA-24	161	Room 24	109
WA-25	59.0	Room 25	111

APPENDIX A





APPENDIX B

APPENDIX B - PHOTOGRAPHIC RECORD

Project No: ENMISC2509





Photo #1: Walters National Guard Armory.



Photo #2: Beige-painted rollup door and metal frame - LBP.



Photo #3: Brown-painted metal door frame, Room 23 - LBP.



Photo #4: Black painted metal door frame, Room in 15 - LBP.



Photo #5: Gray-painted metal door, Room 16 – LBP.



Photo #6: Gray-painted metal bar joist/trusses, Room 16 - LBP.

APPENDIX B - PHOTOGRAPHIC RECORD

Project No: ENMISC2509



Photo #7: View of white painted lintel, Room 16, Side B - LBP.



Project Name: Walters National Guard Armory

Photo #8: Wood boards at the top of the wall, Room 16 - LBP.



Photo #9: I-beams and kaylo ceiling, Room 23
- LBP.



Photo #10: Red-painted rollup doors - LBP.



Photo #11: Yellow-painted window frame and lintel – LBP.



Photo #12: Brown painted metal door lintel, as found on Sides A & C - LBP.

APPENDIX B - PHOTOGRAPHIC RECORD

Project No: ENMISC2509



Photo #13: Yellow-painted rollup door lintels, on Sides A & D - LBP.



Photo #15: Yellow-painted metal edge protectors, Sides A & D - LBP



Photo #17: Grey-painted window lintel on Side D – LBP.

Project Name: Walters National Guard Armory



Photo #14: Red-painted metal modified bollards on Sides A and D- LBP.



Photo #16: Yellow-painted wood window lintels on Sides B & C – LBP.





Environmental Chemistry Analysis Report

QuanTEM Set ID:

201396

Date Received:

11/03/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

11/4/2011

AJHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Walters Armory

Location:

Walters, OK

Project No.: N/A

QuanTEM ID	Client ID	Matrix	Parameter	54	Results	Reporting Limits	· Units	Date/Time Analyzed	Method
						10			
100	WA-01	Wipe	Lead		<16.0	16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
002	WA-02	Wipe State	Lead		<16.0	16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
003	WA-03	Wipe	Lead		<16.0	16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
004	WA-04	Wipe	Lead		<16.0	16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
005	WA-05	Wipe	Lead	-	<16.0	16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
006	WA-06	Wipe	Lead		<16.0	16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
007	WA-07	Wipe	Lead		23.0	16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
008	WA-08	Wipe	Lead		<16.0	16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
009	WA-09	Wipe	Lead		<16.0	16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
010	WA-10	Wipe	Lead		<16.0	16-	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
011	WA-11	Wipe	Lead		<16.0	16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
012	WA-12	Wipe	Lead		<16.0	16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420(1)
013	WA-13	Wipe	Lead		<16.0	16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
014	WA-14	Wipe	Lead		176	16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
015	WA-15	Wipe	Lead		39.9	16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
016	WA-16A	Wipe	Lead		57.4	16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
017	WA-16B	Wipe	Lead		39.5	16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preperation Modified. EPA 7082 Analysis Modified



Environmental Chemistry Analysis Report

QuanTEM Set ID:

201396

Date Received:

11/03/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

· 11/4/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Walters Armory

Location:

Walters, OK

Project No.: N/A

QuanTEM						Re	porting		Date/Time	
ID	Client ID	Matrix	Parameter		Results		Limits	Units	Analyzed	Method
								. N		
018	WA-16C	Wipe	Lead		51.9		16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
019	WA-17	Wipe	Lead		118		16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
020	WA-18	Wipe	Lead		52.8		16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
021	WA-19	Wipe	Lead		89.3		16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
022	WA-20	Wipe	Lead		56.0		16	ug/sq. Ft,	11/04/11 10:30	W EPA 7420 (1)
023	WA-21	Wipe	Lead		138		16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
024	WA-22	Wipe	Lead		39.4	100	16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
025	WA-23	Wipe	Lead	117	72.5		16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
026	WA-24	Wipe	Lead		161		16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
027	WA-25	Wipe	Lead		59.0		16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
028	WA-26	Wipe	Lead		<16.0		16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
029	WA-27	Wipe	Lead		<16.0		16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
030	WA-28	Wipe	Lead		<16.0		16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
031	WA-29	Wipe	Lead		<16.0		16	ug/sq. Ft.	11/04/11 10:30	W EPA 7420 (1)
										(1)

Note: Sample results have not been corrected for blank values.

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EPA Method 7082 (2) = EPA 600/R-93/200 Preperation Modified. EPA 7082 Analysis Modified



Environmental Chemistry Analysis Report

QuanTEM Set ID:

201396

Date Received:

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Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

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Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Walters Armory

Location:

Walters, OK

Project No.: N/A

Units -

AIHA ID: 101352

OuanTEM

ID

Client ID

Matrix

Parameter

Reporting

Results Limits

Date/Time

Analyzed

Method

Authorized Signature:

Rebecca Sparks, Analyst

Note: Sample results have not been corrected for blank values.

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Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Mcthod 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preperation Modified. EPA 7082 Analysis Modified

Supplemental Report **QAQC** Results

QÁ ID:

9342 Lead Date:

11/4/2011

Wipe Matrix:

Lab Number: Approved By: 201396

Rebecca Sparks Date Approved: 11/4/2011

Notes:

Test:

Blank Data:

Management and others	
Type of Blank	Blank Value
ICB -	<u> </u>
FCB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
ccv	4.5		5.5
FCV	4.5	5	5.5
ICV	0.8	1.1	. 1.2
RLVS	0.256	0.333	0.384

Duplicate Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
iMS-W3	0.000	5.438	5.162	94.9	5.139	94.5	0.5
MS-W2	0.000	5.449	5.585	102.5	5.340	98.0	4.5
MS-WI	0.000	5.460	5.464	100.1	5.510	100.9	0.8

Authorized Signature:

Rebecca Sparks, Analyst

Lead Chain-of-Custody

2033 Hertage Park Drive, Okiahoma City, OK 73120-7502 (988) \$22.4650 (405) 765-7272 Feet (405) 765-2058 were guant our com

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Project Name: 1/9/1/15 HIMONY

Project Number:

ACE #

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Project Location: Welters, OK

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Revision: May 2008



Lead Chain-of-Custody

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Acct #

Project Eccentum: (424/405, OK

Company Name: Enercon

Project Number:

Proper Name: Walters Himory

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Lead Chain-of-Custody

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Project Name: Walters Acresely were quantom com Appt #: Project Excention: _ LValles, OK Company Name: England

Preject Number:

Units Requested

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Semple Number

Please Print Legibly LEGAL DOCUMENT

Sample Meanle

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B - Paint Capa

A-800

D - Bush Missoria E - Alr Cassatta F-Other (SPECI

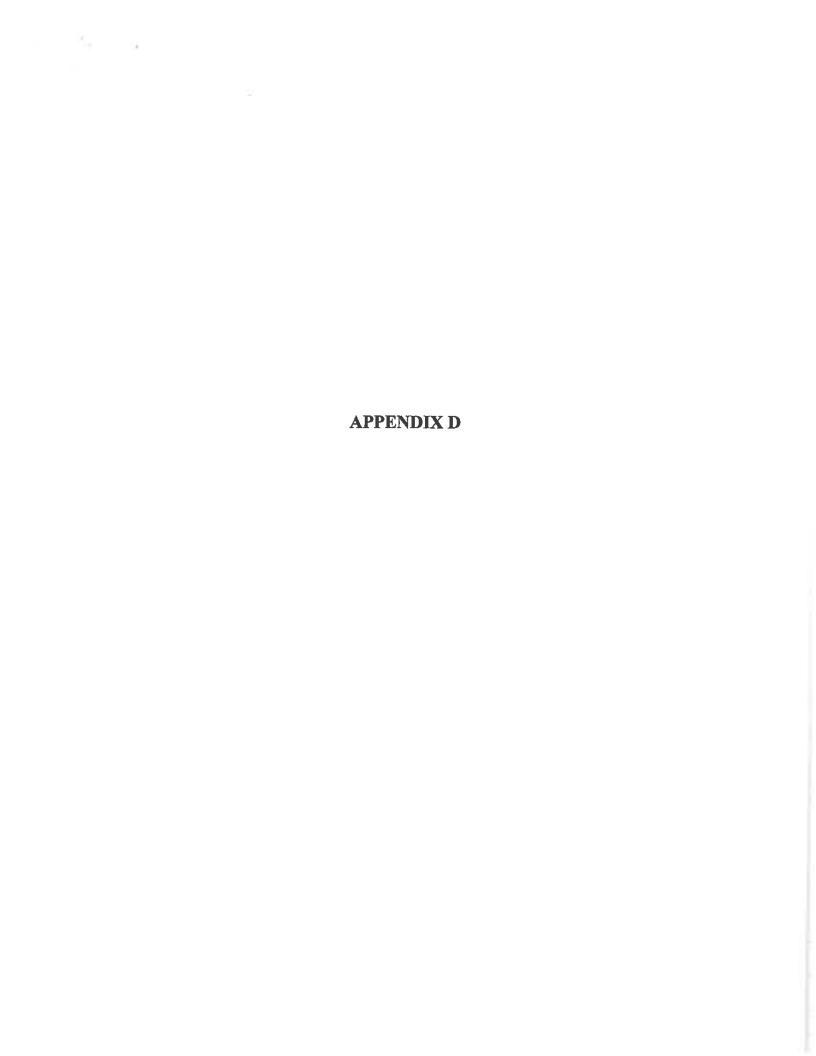
CONTACT INFORMATION	Hazell	Deatscar	Phone. (72-/693	Report Reside VIA (CHOOSE ONE):	FAX	CONSTITUTION WAIDSHE	

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Parties: May 2000

WA-29



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- 1		Ť	YELLOW	WAI TERS ARMORY	EXTERIOR	Negative	\neg		
- 1	METAL A		YELLOW	WAI TERS ADMODY	EVTEBIOD	Modelive	Т		4 LUD
26 11/1/2011 10:46 WINDOW FRAME		Ī	YELLOW	WALTERS ARMORY	EXTERIOR	Negative			7000
- 1	CONCRETE A	Γ	RED	WAI TERS ADMODY	EVTEDIOR	Negalive	\neg		TOD V
28 11/1/2011 10:47 WINDOW SILL			RED	WAI TERS ARMORY	EXTERIOR	Negative		V 100	
	CONCRETE A		RED	WALTERS ARMORY	EXTERIOR	Medativo	Т	י י ספיי י	
11/1/2011 10:49	METAL A	Ĺ	YELLOW	WALTERS ARMORY	EXTERIOR	Negative	1,,		
11/1/2011 10:50	METAL A		RED	WALTERS ARMORY	EXTERIOR	Positive	0.0	0.0	V LOD
11/1/2011 10:50	METAL A	FAIR	RED	WALTERS ARMORY	EXTERIOR	Positive	7. C	0 0	7.0
11/1/2011 10:50	METAL A	FAIR	RED	WALTERS ARMORY	EXTERIOR	Positive	, r	i	7 4
34 11/1/2011 10:51 MODIFIED BOLLARD	METAL A		RED	WALTERS ARMORY	EXTERIOR	Positive		† CO v	20.5
⊥.			YELLOW	WALTERS ARMORY	EXTERIOR	Positive		12	7.5
11/1/2011 10:38			(ELLOW	WALTERS ARMORY	EXTERIOR	Positive	9.4	15.	9.4
11/1/2011 11:05			YELLOW	WALTERS ARMORY	EXTERIOR	Positive	7.6	1.6	7.6
11/1/2011 11:07	METAL		YELLOW	WALTERS ARMORY	EXTERIOR	Positive	7.9	1.6	7.9
11/1/2011 11:08 DOOR ROLL			KED.	WALTERS ARMORY	EXTERIOR	Positive	1.5	1.3	1.5
FLOOR GILAR		Ť	KEU	WALTERS ARMORY	EXTERIOR	Positive	3.2	1.1	3.2
1	CONCETE	Y COOR	YELLOW	WALTERS ARMORY	EXTERIOR	Negative	0.5	0.5 < LOD	COD
43 11/1/2011 11:12 DOOR	\neg	1	WHILE	WALIERS ARMORY	EXTERIOR	Negative		< LOD >	< LOD
44 11/1/2011 11:12 DOOR FRAME		T	NOVAN MACO	WALTERS AKMORY	EXIERIOR	Negative	< LOD >	> COD >	< LOD <
45 11/1/2011 11:13 DOOR LINTEL			NANCHAR	WALTERS ARMORY	EXTERIOR	Positive	1.8	_	~ LOD
46 11/1/2011 11:15 WINDOW FRAME		Ť	VELLOW.	WALTERS ARMORY	EXTERIOR	Positive	2.7	2.7	5.9
47 11/1/2011 11:16 WINDOW FRAME		Ť	YFILOW	WALLERS ARMORT	EXTERIOR	Positive	1.7	1.7 < LOD	9
48 11/1/2011 11:16 WINDOW LINTEL		ĺ	YELLOW	WALTERS ARMORT	EXTERIOR	Positive	89 G	2.8 < LOD	9
49 11/1/2011 11:17 WINDOW LINTEL		Ť	YELLOW	WALTERS APMORT	EXTERIOR	Positive	970	0	v Lob
		1		WALLENO CHARGON	EVIENION	Positive	6.3 <	< LOD >	6.3

Reading No	Time		Component	Substrate	Shide	Condition	المامة.	- Dit-			ı	Í	
20	11/1/2011	11:24	11/1/2011 11:24 WINDOW LINTEL HIGH BAY	WOOD	ď	POOP		MAIN TOTAL	KOOL	Results		P	PbK
51	11/1/2011 11:25	11:25	WINDOW LINTEL HIGH BAY	WOOD	1 60	200 800 800 800 800 800 800 800 800 800	YELOW YELOW	WALTERS ARMORY	EXTERIOR	Positive	3.5	3.5 < LOD	CO
52	11/1/2011 11:25	11:25	WINDOW LINTEL HIGH BAY	MOOD	<u> </u>	POOR	YELLOW	WALIERS ARMORT	FALERIOR	\neg	3.9		~ [00 v
23	11/1/2011 11:26	11:26	WINDOW FRAME HIGH BAY	METAL	<u> </u>	POOR	YELLOW	MAI TEDS ADMORY	EXTERIOR	\rightarrow	2.6	5.6	3.3
54	11/1/2011 11:26	11:26	WINDOW FRAME HIGH BAY	METAL	0 000	NOOE N	VELLOW	WALTERS ARMORY	EXTERIOR	Positive	4.6		oD
2 2	11/1/2011 11:33	11:33		METAL	O	POOR	YELLOW	MAI TEDS ADMODIA	TYTER OR	Positive	2.9		~ LOD ~
92	11/1/2011 11:33	11:33	WINDOW FRAME	METAL	O	POOR	YELLOW	WALTERS ARMORY	FATERIOR	Positive	2.8	2.8 <	, [OD
22	11/1/2011 11:34	1:3	WINDOW FRAME	METAL	ပ	POOR	YELLOW	WALTERS ARMORY	EXTERIOR	Positivo	1.7	7.7	1.7
80	11/1/2011	11:35	\rightarrow	METAL	ပ	FAIR	YELLOW	WALTERS ARMORY	EXTERIOR	Positive	2 5		3 6
PG	11/1/2011 11:35	11:35	WINDOW LINTEL	METAL	ပ	POOR	YELLOW	WALTERS ARMORY	EXTERIOR	Dogifiyo	5,5	0 0	ירנים ארנים
00	11/1/2011 11:36 DOOR	11:38	DOOR	METAL	၁	POOR	BROWN		EXTERIOR	Neciative	0.6 0.6	2.6	2 2
, Q	11/1/2011 1	11:36	DOOR FRAME	METAL	ပ	POOR	BROWN	WALTERS ARMORY	EXTERIOR	Positive			3
2 6	11/7///11	11.36	11/1/2011 11:36 DOOR LINTEL	METAL	ပ	POOR	BROWN	WALTERS ARMORY	EXTERIOR	Positive	3.1	3.1	ι, α 3 -
3 2	11/1/2011	1.40	11/1/2011 11:46 DOOR LIN EL KOLL UP	METAL	اٍ ۵	INTACT	YELLOW	WALTERS ARMORY	EXTERIOR	Positive	-	V COD	G
. R	11/1/2011 1	11.40	11/1/2011 11:49 MOD BOLL OF	METAL	٥	POOR	RED	WALTERS ARMORY	EXTERIOR	Positive		(m	ς ΓοD
8	11/1/2011 1	11:50	11/1/2011 11:50 FDGE PROTECTOR	METAL	2 0	YOOK E	RED	WALTERS ARMORY	EXTERIOR	Positive	16.8	1.7	16.8
67	11/1/2011 11:50	11:50	FDGE PROTECTOR	METAL	ے د	TAK G	YELLOW	WALTERS ARMORY	EXTERIOR	Positive	11.1	< LOD	11.1
89	11/1/2011 12:06 CANOPY	12:06	CANOPY	COOM	ے د	POOD	YELLOW	WALTERS ARMORY	EXTERIOR	Positive	~~		9.9
69	11/1/2011 12:06 DOOR	12:06	DOOR	A COOM	ے د	2002 2002 2003	GRAY	WALIERS ARMORY	EXTERIOR	Negative	< LOD >	> Q07 >	001 ×
02	11/1/2011 1	12.07	11/1/2011 12:07 DOOR FRAME	METAI	ی د	FOOR FOOR	GRAY	WALTERS ARMORY	EXTERIOR	Negative	> 001 >	< LOD <	4 LOD
7.4	11/1/2011 1	12.07	11/1/2011 12:07 DOOR FRAME	METAL	اد	7007 R009	GKAY	WALTERS ARMORY	EXTERIOR	Negative	> 001 >	> 007 >	< LOD
72	11/1/2011 1	12:07	11/1/2011 12:07/DOOR FRAME	METAL	ی د	A COS	GKAY	WALTERS ARMORY	EXTERIOR	Negative	> GOT >	> GOT >	007 ×
73	11/1/2011 1	12:08	11/1/2011 12:08 DOOR LINTEL	METAI	ے د	X 000	GKAY	WALTERS ARMORY	EXTERIOR	Negative		> TOD >	dol>
74	11/1/2011 1	12:08	11/1/2011 12:08 WINDOW FRAME	METAI	٥	500	200	WALIERS ARMORY	EXTERIOR	Negative	N	0.22	1.5
75	11/1/2011 1	12:09	11/1/2011 12:09 WINDOW FRAME	MFTAI	ی د	200	VELLOW VELLOW	WALTERS ARMORY	EXTERIOR	Negative	\neg		< LOD
9/	11/1/2011 1	12:09	11/1/2011 12:09 WINDOW LINTEL	METAL	ی اد	FAIR	VELLOW	WALTERS ARMORY	EXTERIOR	Negative		~ LOD ~	~ LOD
77	11/1/2011 1	12:10	11/1/2011 12:10 WINDOW SILL	CONCRETE	-	Poor	RED	WAI TERS ARMORY	EXTERIOR	Negative	001		000
8/	11/1/2011 1	12:10	11/1/2011 12:10 WINDOW SILL	CONCRETE	S	POOR	RED	WAI TERS ARMORY	EXTERIOR	Modeline	\neg		V COD
62	11/1/2011 1	12:11	11/1/2011 12:11 WINDOW FRAME	METAL	ပ	POOR	YELLOW	WALTERS ARMORY	EXTERIOR	Negative	\neg		000
200	11/1/2011 1	12:11	11/1/2011 12:11 WINDOW FRAME	METAL	ပ	POOR	YELLOW	WALTERS ARMORY	EXTERIOR	Negative	\top		רַכּה
50 6	11/1/2011 1	12:11	11/1/2011 12:11 WINDOW FRAME	METAL	ပ	POOR	YELLOW	WALTERS ARMORY	EXTERIOR	Negative			
700	44/4/2044 4	71.71	11/1/2011 12:12 WINDOW LINIEL	METAL	ပ	POOR	YELLOW	WALTERS ARMORY	EXTERIOR	Negative			300
8 8	11/1/2011	12.12	11/1/2011 12:12/WINDOW LINIEL	METAL	Ç	POOR	YELLOW	WALTERS ARMORY	EXTERIOR	Negative		V 001 v	
. R	11/1/2011 1	10.45	11/1/2011 12:14 WINDOW LINIEL	MEIAL	S	POOR	YELLOW	WALTERS ARMORY	EXTERIOR	Negative	-		00 >
98	11/1/2011 1	12.15	11/1/2011 12:15 WINDOW FRAME	METAL	ی د	POOR	YELLOW	WALTERS ARMORY	EXTERIOR	Negative	Т		00]×
28	11/1/2011 1	12:16	11/1/2011 12:16 WINDOW FRAME	WOON CO	ے د	X000	Z E	WALTERS ARMORY	EXTERIOR	Negative	$\overline{}$	> QO >	~Lob
88	11/1/2011 1	12:18	11/1/2011 12:18 WINDOW FRAME	METAL	عاد	A GOOD	VELLOW	WALIERS AKMORY	EXTERIOR	Negative	\neg		< LOD
88	11/1/2011 1	12:18	11/1/2011 12:18 WINDOW FRAME	METAL		POOR	VELLOW	WALLERS AKMORY	EXIERIOR	Negative	\neg		ol^
8	11/1/2011 1	12:19	11/1/2011 12:19 WINDOW LINTEL	METAL		POOR	YELLOW	WALLERS ARMORY	EXTERIOR	Negative	\neg	\neg	000
တ်	11/1/2011 1	12:19	11/1/2011 12:19 WINDOW LINTEL	METAL	۵	POOR	YELLOW	WAI TERS ARMORY	EXTERIOR	N-Banve	V 100		\
92	11/1/2011 1	12:19	11/1/2011 12:19 WINDOW LINTEL	METAL	۵	POOR	YELLOW	WALTERS ARMORY	EXTERIOR	Negative	_		200
50 50	11/1/2011 12:49	_	WINDOW LINTEL HIGH BAY	WOOD	٥	POOR	GRAY	WALTERS ARMORY	EXTERIOR	Positive			
S O	11/1/2011 12:50	2.50	WINDOW FRAME HIGH BAY	METAL	۵	POOR	YELLOW	WALTERS ARMORY	EXTERIOR	Positive	4		200
C S	11/1/2011 12:58 DOOP	2.50	11/1/2011 12:38 DUOK FRAME	METAL	ω.	INTACT	BLACK	WALTERS ARMORY	ROOM 1	Negative	< LOD <	< LOD < 1	00 v
26	11/1/2011 12:59 WALL	19:50	WALL	DRYWALL	< 4	INTACT	WHITE	WALTERS ARMORY	ROOM 1	Negative	\neg		001 >
86	11/1/2011 12:59 WAL	19:50	IN/AI I	DEWALL	20 0	INTACT	WHITE	WALTERS ARMORY	ROOM 1		$\overline{}$		007 >
		1	V V V V V V V V V V V V V V V V V V V	וחעו אערר	<u>_</u>	INTACT	WHITE	WALTERS ARMORY	ROOM 1		$\overline{}$		< LOD

Reading No Time	Company	Subatesta Bid.	N. T.							
99 11/1/2011 13:00 WAI	WAIT	CONCDETE O	Condition	Color	STB	Room	Results	Pbc	Pbl	장
100 11/1/2011 13:01 WALI	WALL		INTACT	WHILE	WALIERS ARMORY	ROOM 1	Negative	< LOD < LOD < LOD	< LOD <	LOD
101 11/1/2011 13:02 WALL	WALL		NTACT	WILLIE WAY	WALIERS ARMORY	ROOM 2	Negative	10	0.06	COD ∨
102 11/1/2011 13:02 WALL	WALL		TOVEN	WILE THE WAY COLUMN	WALIERS ARMORY	ROOM 2	Negative	一		LOD
103 11/1/2011 13:46		T			CALIDDATE	KOOM 2	Negative			< LOD
104 11/1/2011 13:47					CALIBRATE		Negative	6.0	0.9	1.2
					CALIBRATE		Negative	0.9	0.9	-
Ш	CEILING	MOOD D	INTACT	WHITE	MAI TEDE ADMADOV	7 7 7 7	Positive	_		\
_	TRIM BOARD		INTACT	WHITE	WALTERS ARMORY	POOM 1	Negative	_	\neg	QO V
	11/1/2011 13:54 CEILING BEAM	WOOD	INTACT	WHITE	WALTERS ARMORY	ROOM 1	Negative			000
	WALL	BRICK	INTACT	GRAY	WALTERS ARMORY	ROOM 2	Negative	\top		
_	11/1/2011 14:01 CEILING DECKING		INTACT	WHITE	WALTERS ARMORY	ROOM 5	Negative	10	1114	
_	WALL	$\overline{}$	INTACT	WHITE	WALTERS ARMORY	ROOM 5	Nedative	0.44	0.40	3
	WALL		INTACT	GREEN	WALTERS ARMORY	ROOM 5	Negative	2 0	0.08	7.00
113 11/1/2011 14:05 CEILING	CEILING		INTACT	WHITE	WALTERS ARMORY	ROOM 7	Negative	QO V	V COI V	
	11/1/2011 14:00 WINDOW FRAME		FAIR	BEIGE	WALTERS ARMORY	ROOM 7	Negative	$\overline{}$	< LOD < LOD	36
丄	DOOR PARKET		FAIR	GRAY	WALTERS ARMORY	ROOM 7	Null Null	7/0	0.6 < 1.00	200
	DOOD FRAME		FAIR	BLACK	WALTERS ARMORY	ROOM 7	Negative	9.0	0.6 < LOD	9
\perp	DOOD TRAWE		FAIR	BLACK	WALTERS ARMORY	ROOM 10	Negative	0.26	0.26 < LOD	00
	NOOD O		FAIR	GRAY	WALTERS ARMORY	ROOM 10	InN	0.8	0.8 < LOD	0
	NOON A		FAIR	GRAY	WALTERS ARMORY	ROOM 10	Negative	9.0	0.6 < LOD	0
┸	DOOD EDAME		POOR	GRAY	WALTERS ARMORY	ROOM 11	Negative	0 V	0.5 < LOD	GO
+	DOOR FDAME		POOR	BLACK	WALTERS ARMORY	ROOM 11	In N	0.9	0.9	1.2
	CELLING	METAL	FOOK FOOK	BLACK	WALTERS ARMORY	ROOM 11	Negative	0.3	0.3 < LOD	GO
	WALL	Ļ	INTACI	WHITE	WALTERS ARMORY	ROOM 11	Negative	007×	> 001 >	007 ×
	WAII		INTACI	WHITE	WALTERS ARMORY	ROOM 11	Negative	0.12	0.12 < LOD	go
	WALL	CONCRETE	INTACI	WHITE	WALTERS ARMORY	ROOM 11	Negative	0.07	0.07 < LOD	00
	WAL		INIACI	WHITE	WALTERS ARMORY	ROOM 11	Negative	0.0	0.08	00] v
╄	11/1/2011 14:19 WINDOW FRAME		INIACI	WHITE	WALTERS ARMORY	ROOM 11			4.LOD	-
_	DOOR		INTACI	WHITE	WALTERS ARMORY	ROOM 11	1 1	_	< LOD <	007 v
	DOOR FRAME	METAL	IN ACT	WHILE	WALTERS ARMORY	ROOM 12			< LOD <	- COD
131 11/1/2011 14:21 DOOR FRAME	DOOR FRAME		EAID	WEBTE	WALTERS ARMORY	ROOM 12	Negative	\neg		< LOD
	DOOR		FAIR	WHITE	WALTERS ARMORY	ROOM 13	Negative	\neg		ν Γου ν
	DOOR		FAIR	WHITE	WALTERS ARMORY	ROOM 14	Neganve	מסיי	v 1007 v	000
	DOOR	METAL B	FAIR	WHITE	WALTERS ARMORY	ROOM 14	Negative	V 00.00	90.0	
130 11/1/2011 14:24 DOOR FRAME	DOOK FRAME	$\overline{}$	FAIR	GRAY	WALTERS ARMORY	ROOM 14	Negative			000
	CEILING	\rightarrow	FAIR	WHITE	WALTERS ARMORY	ROOM 14	Null		v COD v	qo v
\perp	WALL WATER	ETE.	FAIR	WHITE	WALTERS ARMORY	ROOM 14	Negative			00 v
	WALL		Poor	WHITE	WALTERS ARMORY	ROOM 14	П	Т	τ	QO v
	WALI	BEICK	POOR	WHITE	WALTERS ARMORY	ROOM 14	1	< COD >		~[OD
	WALL	D VOICE	7002 2003 2003	WHILE	WALTERS ARMORY	ROOM 14	Negative		> GOT >	<
142 11/1/2011 14:28 WALL	WALL		7007	WHILE	WALIERS ARMORY	ROOM 14	Negative	< LOD <	< LOD >	QO] >
	WAL		TAR DAD	BLACK	WALTERS ARMORY	ROOM 15	Negative	0.05	0.05 <	< LOD <
	11/1/2011 14:30 WINDOW FRAME		POOD	BLACK	WALTERS ARMORY	ROOM 15	Negative	0.07	-	-
145 11/1/2011 14:31 WINDOW SILL	WINDOW SILL		FAIR	GRAY	WALIERS ARMORY	KOOM 15	Negative	V [00 V	> GOT >	OD V
Ц	DOOR FRAME		POOR	GRAY	WALTERS APMORT	SCOM 15	Negative		0.13	-
147 11/1/2011 14:32 DOOR LINTEL	DOOR LINTEL		FAIR	WHITE	WAI TERS ARMORY	ROOM 15	Negative		COD < COD < COD < COD	0
						2 11000	Negauve	п	, LOD	\ \ \ \ \ \

	Time	Component	Substrate Side	Condition	Color	SH2	Boom.	Donnelle	040	1761	77.7
148	11/1/2011 14:33 DOOR	33 DOOR	Г	POOR		WALTERS ARMORY	ROOM 15	Negativo	6	. 5	LDV.
149	11/1/2011 14:34 DOOR	34 DOOR		POOR	GRAY	WALTERS ARMORY	ROOM 15	Negative	\neg	200	
150	11/1/2011 14	11/1/2011 14:34 DOOR FRAME	METAL C	POOR	BLACK	WALTERS ARMORY	ROOM 15	Positive	1,500	2.5	42/100
151	11/1/2011 14	11/1/2011 14:37 WINDOW BARS	METAL A	FAIR	GRAY	WALTERS ARMORY	ROOM 15	Negative	100	7 0	<u>ק</u>
152	11/1/2011 14:38 FLOOR	:38 FLOOR	CONCRETE A	POOR		BLUE WALTERS ARMORY	ROOM 15	Negative	100		
153	11/1/2011 14	11/1/2011 14:46 BAR JOIST	METAL A	POOR		WALTERS ARMORY	ROOM 16	Positive	11 8	2 6	11 8
154	11/1/2011 14	11/1/2011 14:46 BAR JOIST	METAL A	POOR	GRAY	WALTERS ARMORY	ROOM 16	Positive	10.8	99	10.8
200	11/1/2011 14:46	- 15		POOR	GRAY	WALTERS ARMORY	ROOM 16	Positive	5.5		< LOD
130	44.47004444			POOR	GRAY	WALTERS ARMORY	ROOM 16	Positive	3.2		< LOD
101	11/1/2011 14:48	48 BOARD ON TOP OF WALL		POOR	GRAY	WALTERS ARMORY	ROOM 16	Positive	4.7		001×
20 0	11/1/2011 14:50 WALL	SO WALL	ÄEEE	FAIR	WHITE	WALTERS ARMORY	ROOM 16	Negative	0.07	l h	CO V
80	11/1/2011 14:51 WALL	51 WALL		FAIR	WHITE	WALTERS ARMORY	ROOM 16	Negative	_	V CC V	200
767	11/1/2011 14:52 WALL	52 WALL		FAIR	WHITE	WALTERS ARMORY	ROOM 16	Negative	1=	010	0.1 < 1.00
. S	11/1/2011 14:53 WALL	53 WALL	BRICK	FAIR	WHITE	WALTERS ARMORY	ROOM 16			00/	
791	11/1/2011 14:53 WALL		BRICK	FAIR	WHITE	WALTERS ARMORY	ROOM 16	Negative	$\overline{}$	V COO	000
20.2	11/1/2011 14:56	DOOK ROLL		POOR	BEIGE	WALTERS ARMORY	ROOM 16	Positive		3.2 <	4 LOD
40	11/1/2011 14	11/1/2011 14:5/ LOOK ROLL UP FRAME		POOR	BEIGE	WALTERS ARMORY	ROOM 16	Positive	2.9	2 9 0	OI >
200	11/1/2011 15	11/1/2011 15:01 DOOR FRAME		FAIR	GRAY	WALTERS ARMORY	ROOM 16	Negative	0.7	0 7 0	0.7 × 1.0D
991	11/1/2011 15	11/1/2011 15:02 DOOR LINTEL	METAL D	FAIR	GRAY	WALTERS ARMORY	ROOM 16	Negative	60	0	001 > 60
Je,	11/1/2011 15:06	:06 DOOR	METAL D	FAIR	GRAY	WALTERS ARMORY	ROOM 16	Positive	-	-	80
158	11/1/2011 15	11/1/2011 15:07 WINDOW PASS THROUGH	WOOD	FAIR	GRAY	WALTERS ARMORY	ROOM 16	Negative	6.0	0	3
169	11/1/2011 15	11/1/2011 15:08 WINDOW PASS THROUGH FRAME	WOOD	FAIR	GRAY	WALTERS ARMORY	ROOM 16	Negative	2	2 2	0.5 < 1.00
δ.	11/1/2011 15	11/1/2011 15:08 WINDOW PASS THROUGH CTOP	WOOD D	FAIR	GRAY	WALTERS ARMORY	ROOM 16	Negative	90	9 0	06 1 00
5	11/1/2011 15:11 DOOR	11 DOOR	METAL D	POOR	GRAY	WALTERS ARMORY	ROOM 16	Negative	0	0 80	06 < 100
172	11/1/2011 15	11/1/2011 15:11 DOOR FRAME	METAL D	FAIR	BLACK	WALTERS ARMORY	ROOM 16	Negative	0.4	0.00	7 0
1/3	11/1/2011 15:14 LINTEL	14 LINTEL	METAL	FAIR	WHITE	WALTERS ARMORY	ROOM 16	Positive	75.55	2 4	7
1/4	11/1/2011 15:15 FLOOR	15 FLOOR	CONCRETE C	POOR	YELLOW	WALTERS ARMORY	ROOM 16	-SZ	90	90	-
1/3	11/1/2011 15:16 FLOOR	16 FLOOR	\neg	POOR	YELLOW	WALTERS ARMORY	ROOM 16	Negative	0.3	0 00	100
9/1/9	11/2011 15:16 FLOOK	16 FLOOR	CONCRETE C	POOR	RED	WALTERS ARMORY	ROOM 16	Negative	001 ×	v COD v	00 >
7/10	11/1/2011 15:20 WALL	ZO WALL		INTACT	WHITE	WALTERS ARMORY	ROOM 17	Negative	_	$\overline{}$	00 >
2 2	11/1/2011 15:20 WALL	20 WALL	_	INTACT	WHITE	WALTERS ARMORY	ROOM 17	Negative	\top	$\overline{}$	00 I v
2 2	11/1/2011 15:20 WALL	ZO WALL		INTACT	WHITE	WALTERS ARMORY	ROOM 17	Negative	1		qo I v
200	1 1/ 1/2011 15:2/ WALL	Z/ WALL		POOR	GRAY	WALTERS ARMORY	ROOM 23	Negative		_	4 LOD
183	11/1/2011 15:2/ WALL	27 WALL		POOR	GRAY	WALTERS ARMORY	ROOM 23	Null	, 100 100 100	> 001 >	COD >
187	11/1/2011 15:28	S WALL		7 2	GRAY	WALTERS ARMORY	ROOM 23	Negative	<007 >	O > 001 >	00
3 2	11/1/2011 15:32	- 1 -	MEIAL	TAIR S	GRAY	WALTERS ARMORY	ROOM 23	Positive	5.6	5.6 <	< LOD
185	11/1/2011 15		WOOD C	POOP	MUITE	WALIERS ARMORY	ROOM 23	Positive	m		4 LOD
186	11/1/2011 15:35 WALL	35 WALL	-	TOTAL	WILLE	WALTERS ARMORY	KOOM 23	Negative	т		~[OD
187	11/1/2011 15:35 WALL	35 WALL		INTACT	WHITE	WALIERS ARMORY	ROOM 24	Negative	\neg		~ [OD
188	11/1/2011 15:37 WALL	37 WALL	Ι.	INTACT	WHITE	WALLERS ADMACKT	POOM 24	Negative		\neg	00 v
189	11/1/2011 15:37 WALL	37 WALL	Ι.	INTACT	WHITE	WALTERS ARMORY	POOM 25	Negative	V COD	v (0D) v	007
190	11/1/2011 15:40 WALL	40 WALL	ш	INTACT	WHITE	WALTERS ARMORY	ROOM 26	Negative			200
191	11/1/2011 15:41 WALL		BRICK	INTACT	WHITE	WALTERS ARMORY	ROOM 26	Negative	0 12	0 10	
192	11/1/2011 15:43 WALL			INTACT	WHITE	WALTERS ARMORY	ROOM 26	Negative	0.16	0 18	3 -
183	11/1/2011 15:44 CEILING	44 CEILING	WOOD C	INTACT	WHITE	WALTERS ARMORY	ROOM 26	Negative	QOJ.	<10D < 10D	0
194	11/1/2011 15:44 DOOR			FAIR	GRAY	WALTERS ARMORY	ROOM 26	Negative	\neg	> 007 ×	200 V
800	11/1/2011 15:44 DOOR		WOOD A	FAIR	GRAY	WALTERS ARMORY	ROOM 26	Negative	$\overline{}$		(OD) >
196	11/1/2011 15:45 DOOR		METAL A	FAIR	GRAY	WALTERS ARMORY	ROOM 26	3			OO

Pading No Time	Time	Component	Substrate Side	Condition	Color	olfe	Room	Doesde	Oho	DEL	DIFIC
197		:46 DOOR	METAL	Ī	GRAY	WAI TERS ARMORY	ROOM 26	Negativo		0 7 1	200
198		11/1/2011 15:46 DOOR FRAME	METAL	FAIR	WHITE	WAI TERS ARMORY	BOOM 26	Nogativo	300	0.7	
199		11/1/2011 15:46 DOOR FRAME	METAL	FAIR	BI ACK	WAI TERS ARMORY	BOOM 26	Nill	2 0	0.0	
200		11/1/2011 15:47 DOOR FRAME		FAIR	BI ACK	WAI TERS ARMORY	POOM 26	Notation	2 0	0.7 100	100
201		11/1/2011 15:50 DOOR FRAME		FAIR	BLACK	WAI TERS ARMORY	ROOM 27	Negative	9 5	200	7
202		:50 DOOR	METAL	FAIR	GRAY	WAI TERS ARMORY	ROOM 27	Negative	\neg		
203		:51 FLOOR		Poor	GRAY	WAI TERS ARMORY	ROOM 27	Negative	\neg	V LOD V LOD	
204		11/1/2011 15:51 CEILING	-	INTACT	GRAY	WAI TERS ARMORY	ROOM 27	Negative		0.0/ ^ 1.00	
205		:52 WALL	BRICK	FAIR	GREEN	WAI TERS ARMORY	ROOM 27	Negative	\neg		
206	_	:53 WALL	BRICK B	FAIR	GREEN	WALTERS ARMORY	ROOM 27	Negative	10		3 5
207		:53 WALL		FAIR	GREEN	WALTERS ARMORY	ROOM 27	Negative	V C	2007	3 5
208		:54 WALL	BRICK	FAIR	GREEN	WALTERS ARMORY	ROOM 27	Negative	200	200	3
209		:55 WALL	BRICK	FAIR	GREEN	WALTERS ARMORY	ROOM 28	Nedative		V 00 V	5
210		:55 WALL	BRICK	FAIR	GREEN	WALTERS ARMORY	ROOM 28	Neciative	T	2017	3 6
211		:56 DOOR	METAL D	FAIR	GREEN	WALTERS ARMORY	ROOM 28	Negative	Т		3 6
212	- 1	11/1/2011 15:56 DOOR FRAME	METAL D	FAIR	GREEN	WALTERS ARMORY	ROOM 28	Negative	+	V 100	
213	- 1	11/1/2011 15:57 DOOR FRAME	METAL	FAIR	BLACK	WALTERS ARMORY	ROOM 28	Negative	\top	< 100 × 100	3 6
214	- 1	:57 DOOR	METAL A	FAIR	GRAY	WALTERS ARMORY	ROOM 28	Negative	Т		3 6
215		:59 DOOR	METAL A	FAIR	GRAY	WALTERS ARMORY	ROOM 29	IN IN	C	001 > 90	
216		:59 DOOR		FAIR	GRAY	WALTERS ARMORY	ROOM 29	No.	0.5	0.5 < 1.0D	ē
21/		00 DOOR		FAIR	GRAY	WALTERS ARMORY	ROOM 29	Negative	00 v	0.6 < LOD	0
218		300 DOOR		FAIR	GRAY	WALTERS ARMORY	ROOM 29	Negative	0.4	0.4 < LOD	0
617		11/1/2011 16:00 DOOK FRAME		FAIR	BLACK	WALTERS ARMORY	ROOM 29	Negative	4.0	0.4 < LOD	00
200	\perp	11/1/2011 16:00 DOUR FRAME		FAIR	BLACK	WALTERS ARMORY	ROOM 29	Negative	0.5	0.5 < LOD	0
77		OT WALL		INTACT	WHITE	WALTERS ARMORY	ROOM 29	Negative	007 ×	QOT >	-
777		02 WALL	삗	INTACT	WHITE	WALTERS ARMORY	ROOM 29	Negative	\ \(\)	QOT > QOT >	00
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477		00.15				CALIBRATE		Negative	0.9	0.9	6.0
300		70.				CALIBRATE		Negative	0.9	6.0	-
777	11/1/2011 16:07	70.		_		CALIBRATE		Negative	0.9	6.0	1.1



Performance Characteristic Sheet

EFFECTIVE DATE:

September 24, 2004

EDITION NO.: 1

MANUFACTURER AND MODEL:

Make:

Niton LLC

Tested Model: XLp 300

Source:

109Cd

Note:

This PCS is also applicable to the equivalent model variations indicated below, for the Lead-in-Paint K÷L variable reading time mode, in the XLi and

XLn series:

XLi 300A, XLi 301A, XLi 302A and XLi 303A. XLp 300A, XLp 301A, XLp 302A and XLp 303A. XLi 700A, XLi 701A, XLi 702A and XLi 703A. XLp 700A, XLp 701A, XLp 702A, and XLp 703A.

Note: The XLI and XLp versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Lead-in-Paint K+L variable reading time mode.

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm² (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is <u>not</u> needed for: Brick, Concrete, Drywall, Metal, Plaster, and Wood

INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm²)
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
ľ	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use the K+L variable time mode readings.

Conduct XRF retesting at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family housing a result is defined as the average of three readings. In multifamily housing, a result is a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity Fa

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

	Test	ing Times Us	ing K+L Readi	ng Mode (Sec	onds)	
		All Data		Median for la	aboratory-measure (mg/cm²)	d lead leve
Substrate	25 th Percentile	Median	75 ^{ti} Percentile	Pb < 0.25	0.25 ≤ Pb<1.0	1.0 ≤ Pb
Wood Drywa!i	4	11	19	11	15	11
Metal	4	12	18	9	12	14
Brick Concrete Plaster	8	16	22.	15	18	16

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing.

	APPENDIX F	
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Department of Environmental Quality

The e-re-Centil Test

ENERCON SVC INC

Les meet the specifications of the Chalciman Load-Plan, Paier Margement, Act

FIRM

Certification #: OKFIRM11152

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Issued on: 4/1/2011

Expires on: 3/31/2612

In Inh

Division Director Air Quality Division



Environmental Programs Managel Air Quality Division

Department of Environmental Quality

MARSHALL BRANSCUM

STREET, THE PERSON OF STREET

INSPECTOR

Certification #: OKINSR13415

Issued on: +/1/2011

Expires on: 3/31/2019

May In M

Division Director Air Quality Division



Environmental Programs Manager Air Quality Division

Department of Environmental Quality

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INSPECTOR/RISK ASSESSOR

Certification #: OKRASR11260

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Issued on: 4/1/2011

Expires on: 3/31/2012

Air Quality Division Division Director



Environmental Programs Manager Air Quality Division

SCOPES OF WORK

STATEMENT OF WORK

For

Remediation of Lead and Asbestos Contamination At The Former Walters National Guard Armory

The Oklahoma Department of Environmental Quality (DEQ) is requesting a work plan and cost estimate for remediation services at a former National Guard armory located in Walters, Oklahoma. This statement of work (SOW) describes the abatement of lead-based paint, remediation of lead contaminated dust, and removal and proper disposal of asbestos containing material. This work must be performed to provide for safe re-use of the facility with unrestricted use such as storage areas, classrooms, or office space. A floor plan map of the Walters Armory is attached for review (Attachment 1).

The building is located at <u>608 West Missouri</u>, <u>Walters</u>, <u>Oklahoma</u>. The square footage is approximately <u>9,880 FT</u>². <u>The building does not have available water and electricity to use during remediation</u>.

SPECIAL PROVISIONS:

- 1. Work Schedule: The Contractor shall schedule all work to be complete within sixty (60) calendar days after date of the written "Notice to Proceed".
 - a. A pre-construction meeting shall be held at the site after the Notice to Proceed date to review Scope of Work and answer any questions the contractor may have.
 - b. All on-site work shall be completed by the Contractor five (5) days prior to the scheduled contract completion date, with the remaining five (5) days utilized for final inspection and correction of all deficiencies.
- 2. Conditions of Work: The following conditions of work will apply in accomplishment of this contract:
 - a. All work shall be performed in accordance with all applicable State and Federal regulations.
 - b. Contractor shall not cause damage to building structures, property, walls, fixtures, etc. during remediation/abatement process unless required for abatement and approval is given by DEQ. If damage is caused to these items without prior approval, contractor is responsible for repairing the damage.
 - c. Coordination of work areas shall be scheduled with DEQ.
 - d. Disposal of Removed Materials: All materials removed by the Contractor under this contract shall be disposed of in accordance with State and Federal regulations. DEQ will sign as generator, if necessary.

CONTRACTOR SHALL:

- Attend mandatory pre-bid meeting and site walk through;
- Posses a current lead-based paint firm license and have a certified lead-based paint supervisor in order to perform lead-based paint abatement;
- Posses a current Oklahoma Department of Labor (ODOL) Asbestos Abatement Contractor License in order to perform asbestos abatement;
- Follow all appropriate OSHA requirements;

 Follow OSHA Lead in Construction Interim Final Standard (29 CFR 1926.62) for leadbased paint abatement, and lead dust remediation;

Submit After Contract Award:

A Work Plan with planned activities and schedule to DEQ for approval;

SEQUENCE OF EVENTS

The remediation of the building shall be as follows:

- 1. First The asbestos abatement shall be completed.
- 2. Second Enercon shall be contacted to confirm all asbestos has been appropriately removed.
- 3. Third Structures in Drill Floor shall be removed
- 4. Fourth The lead-based paint abatement shall be completed including replacement of doors and windows.
- 5. Fifth All floors of the entire building shall be cleaned.
- 6. Sixth DEQ shall be contacted to perform third party confirmation sampling to confirm all floors have been appropriately remediated.

ASBESTOS ABATEMENT INSTRUCTIONS

- Non-friable and/or non-regulated Asbestos Containing Material (ACM) shall be removed as described in the instructions listed below. For more details see the attached Walters Armory Asbestos Inspection Report with floor plan map showing locations of ACM (Attachment 2).
 - o Remove asbestos containing floor tile and mastic.
 - Total of 550 Square Feet of Asbestos Containing Floor Tile and Mastic
 - The floor tile and mastic is located under carpet. The carpet will have to be removed in order to remove the asbestos containing floor tile and mastic.
 - o Remove windows and asbestos containing window glazing.
 - Removed windows shall be replaced (See the Window section under Lead-Based Paint Abatement Instructions for more details on window replacement).
- Friable ACM shall be removed as described in the attached Asbestos Abatement Project Design (Attachment 2). For more details see the attached Walters Armory Asbestos Inspection Report with floor plan map showing locations of ACM (Attachment 2).
 - o Remove approximately 250 linear feet of Asbestos Containing Pipe Insulation.
 - o Remove approximately 25 Asbestos Containing Pipe Fitting Insulation.
 - o All pipes with asbestos containing pipe insulation and pipe fittings removed shall be re-insulated.
- Once Asbestos Abatement is complete, Enercon shall be contacted to confirm abatement has been appropriately performed and all asbestos has been removed.

LEAD-BASED PAINT ABATEMENT INSTRUCTIONS

See Lead-Based Paint Inspection Report for details (Attachment 5)

1. Non-Friction and Non-Impact Surfaces

- All items listed below shall be wet scraped, painted with a neutral colored primer, and encapsulated with DEQ approved elastomeric encapsulant. A list of DEQ approved elastomeric encapsulants is attached (Attachment 4). Encapsulant shall be a minimum of 20 mils thick. The Lead-Based Paint and Settled Dust Sampling Report with floor plan maps detailing the locations of the lead-based paint is attached for review (Attachment 5);
 - All interior and exterior metal overhead door frames, overhead door lintels, modified bollards, and edge protectors.
 - All window lintels, window sills, and door lintels in Drill Floor and Rooms 23, 24, and 25.
 - The wood board on top of wall in Drill Floor.
 - All I-Beams and ceiling of Rooms 23, 24, and 25.
 - All Bar Joists (steel support beams) in Drill Floor.

2. Friction and Impact Surfaces

Overhead Garage Doors and Tracks

- All four overhead doors and tracks in the armory building shall be removed, wrapped in 6 mil poly sheeting, and properly disposed.
- Contractor is responsible for taking field measurements of the overhead doors;
- The two overhead doors shall be replaced with 24 gauge steel CHI Model 3240 section overhead doors or equivalent;
- A third party professional overhead door installer shall remove existing overhead doors and tracks and install new overhead doors and tracks;
- Contractor shall be responsible for wrapping removed doors and tracks in poly sheeting and properly disposing of items;

Windows (See Attachment 6 for Specifications)

- All 13 windows and 4 ventilation frames with associated louvers containing lead-based paint shall be removed, properly disposed and replaced with windows.
- The window glazing contains asbestos. This material shall be handled appropriately during removal.
- Windows installed must meet all attached specifications
- Window installation and oversight of window removal shall be performed by a third party professional window installation company.
 - Window installer shall have no less than five (5) years of installation experience.

- Window installer shall have experience with removal of steel casement windows.
- All interior and exterior window and vent sills shall be HEPA vacuumed, wet washed, and sealed with a lead-based paint encapsulant after windows and vent frames are removed and replaced.
- Product Substitution: Substitutions include products differing from those required by the specification.
 - Submit two (2) copies of each request for product substitution. Identify product to be replaced and provide complete documentation showing compliance of proposed substitution with applicable requirements. Include a full comparison with the specified product, and a list of changes to other Work required to accommodate the substitution.
 - Submit requests for product substitution in accordance with the time allotted to do so by the Scope of Work included within the Bid Solicitation.
 - State of Oklahoma, Department of Environmental Quality will review the proposed substitution and notify bidder of its acceptance or rejection within the time allotted to do so by the Scope of Work included within the Bid Solicitation.
- Window measurements are listed as approximate Width X Height;
 Contractor to field verify.
 - All 7 High Bay windows located in Drill Room are approximately 45" X 33"
 - All 6 windows located in Rooms 23, 24, and 25 are approximately 45" X 34"
 - All 4 Ventilation Openings located in Drill Room are approximately 37" X 20"
- The 7 High Bay windows and the 4 Ventilation Openings located in the Drill Room shall be replaced with General Aluminum Series #2700/2800 Picture Windows or equivalent. Specifications are attached (Attachment 6).
 - Windows shall be non-opening windows
 - Windows shall have Low E glazing
 - Windows shall have Bronze Finish on frame with powder baked on enamel
- The 6 windows located in Rooms 23, 24, and 25 shall be replaced with General Aluminum Series #2700 Single Hung Thermal Break Windows or equivalent. Specifications are attached (Attachment 6).
 - Windows shall be functional windows
 - Windows shall have Low E glazing
 - Windows shall have Bronze Finish on frame with powder baked on enamel

Doors and Frames (See Attachment 7)

Doors and frames with lead-based paint shall have doors removed, all paint shall be removed from door frame, frame shall be painted with a neutral colored primer, and replacement door shall be installed with continuous geared hinges.

- Once lead-based paint has been removed from surfaces, DEQ will perform a visual inspection to confirm lead-based paint has been removed appropriately before surfaces are painted or sealed.
- Below is a list of the doors and frames containing lead-based paint. Door measurements are listed as approximate Width X Height; Contractor shall field verify measurements.
 - o Drill Floor (Side A) Door Measurement 3' X 7'
 - o Drill Floor (Side D) Door Measurement 3' X 7'
 - o Room 23 (Side C) Double Door Measurement 6' X 7'
 - o Room 15 (Side C) Door Measurement 3' X 7'
- All removed doors shall be wrapped in 6 mil poly sheeting and properly disposed;
- Specifications for replacement items are attached (Attachment 7);
- Doors will be replaced with UL listed 90 minute standard metal doors;
- Doors will be replaced with Steelcraft L18 and L16 Series Honeycomb Doors (Specifications Attached) or equivalent;
- Contractor must submit product data for approval if different from doors or door frames in bid package;
- Replacement doors and frames must meet all compliance and fire rating requirements in the attached specifications;

a. Exterior Doors

- o Exterior doors will be replaced with galvannealed, 16 gage, honeycomb core insulated doors;
- Continuous Geared Door Hinges: As manufactured by Pemko or approved equal – Satin Nickel – Half Surface Safety Hinges: Standard (Specifications Attached);
- Threshold: As manufactured by National Guard Products or approved equal – 426E (Specifications Attached);
- o Weather Strip: As manufactured by National Guard Products or approved equal 160VA (Specifications Attached);
- o Lever: As manufactured by Schlage or approved equal D Series "Rhodes", 626 finish, function ND60PD (Specification Attached);
- o Keying: All doors to be keyed alike;
- o Provide sealant per 07920 specification attached.

b. Interior Doors (All Except Indoor Firing Range Door)

- o Interior doors will be replaced with non-galvannealed, 18 gage, honeycomb core insulated doors;
- o Continuous Geared Door Hinges: As manufactured by Pemko or approved equal Satin Nickel Half Surface Safety Hinges: Standard (Specifications Attached);
- o Knob: As manufactured by Schlage or approved equal A Series "Orbit", 626 finish, function A10S (Specification Attached);
- o Provide sealant (caulking) per 07920 specification attached.

3. Sampling and Disposal

- DEQ assumes that all lead-based paint chips removed from surfaces are considered hazardous waste. Lead-based paint removed from surfaces shall be disposed as hazardous waste.
 - If Contractor uses a paint stripper that exhibits a characteristic of hazardous waste, or contains hazardous waste constituents, it is the Contractor's responsibility to characterize this waste under 40 CFR 262.11 and if they are determined to be hazardous waste, disposing of them as such. The Final Report shall contain all relevant information regarding the waste determination.
 - A completed and signed waste manifest, Land Disposal Notification Form, and Certificate of Disposal demonstrating that the paint chips were properly disposed at a hazardous waste facility must be included in the Final Report.

LEAD DUST REMEDIATION INSTRUCTIONS

See Survey for Lead in Settled Dust Report for details (Attachment 5)

1. Lead Dust Remediation (See Attachment 5)

- Surfaces above the floors such as walls, shelves, etc. may have accumulated dust that has settled. This accumulation shall be removed prior to the cleaning of the floors. This shall be done to prevent recontamination of the floors after they are cleaned.
- All rooms built in the drill floor shall be removed and properly disposed.
- Floors of the entire building shall require lead dust remediation;
 - Remove dust from all equipment, shelving, trash, etc, and remove these items from room before remediation begins:
 - Dispose any materials, determined by the DEQ to be trash, as nonhazardous waste;
 - HEPA vacuum and wet wash floors of entire building;
 - Contact DEQ to perform post remediation wipe sampling to confirm that room floors with lead contamination have been appropriately remediated to 40 micrograms per square foot (ug/SF). See Section C (Confirmation and Clearance Sampling) for additional information:
 - Areas above 40 ug/SF shall be re-cleaned and re-tested until results are at or below 40 ug/SF;
 - Lead dust and appropriate cleaning materials shall be disposed as appropriate.

3. Disposal of Materials

 Lead contaminated dust from the cleaning of the building, wash water, poly sheeting, personal protective equipment, mop heads, towels, brushes, wipes, other cleaning equipment, etc. shall be disposed as appropriate;

4. Confirmation and Clearance Sampling

- Contractor may use his own lab to check progress of remediation, however all DEQ decisions shall be based on analytical data from samples taken by DEQ.
- DEQ will be responsible for taking all post remediation samples.
- DEQ shall be notified five (5) days prior to each sampling event.

Contact Information:

DEQ

Contact: Dustin Davidson Phone: (405) 702-5115

- The third-party sampling shall not be included in the contractors base bid;
- All post remediation sampling will be performed after all initial abatement, remediation, and cleaning are complete.

5. FINAL REPORT

- Write final report and submit to DEQ;
- Final report shall include:
 - o A detailed summary of work including any warranties and data;
 - o copy of post remediation sampling report;
 - o waste manifests (if any); and
 - o photo documentation of work;
 - Photo documentation of work will have color digital photos with captions describing photo;
- Final report will be submitted in a bound hard copy and electronically on disc.

OWNER REPRESTATIVE

Owner's Representative: Dustin Davidson

Oklahoma Department of Environmental Quality

Land Protection Division

707 N. Robinson

Oklahoma City, OK 73102

Phone Numbers:

(405) 702-5115 (Office) (405) 702-5101 (Fax)

E-Mail: <u>Dustin.Davidson@deq.ok.gov</u>

ATTACHMENT 1

Walters Armory Floor Plan Map

00.00 72:0" 1 20-8" SCALE STILL OB C "O'C' 2-0" 20'-8 32.6 00-00

ATTACHMENT 2

Walters Armory Asbestos Inspection Report And Walters Armory Asbestos Project Design

Form
Review
Design
'oject

Sproved: X sapproved:

Oklahoma Department of Labor

Asbestos Division

3017 N. Stiles, Oklahoma City, OK 73105 Phone - 405.521 6464

Project Name. Walters Armony

Project No: 12-6980 Date: 02/22/12 Project Dasigner: Bill Muenker

28.0	Phor	Phone - 405.521, 6464	Fax - 405,521-6025	21-6025
	行品付	ACCEPTED	RE IECTED	
,				COMMENTS
اد	A statement that DOL. <u>Abatement of Fnable Materials Rules</u> apply.	×		Work to be performed according to OAC 380-50 (Oklatroma rules for Abetement of Friable Asbestos).
ri l	Sequencing and phasing of work.	×		One Task
က်	Identification of means of egress and a fire protection plan and a diagram for emergency escape routes, and fire extinguisher placements.	×		Workers briefed on emergency egress procedures. One tokABC fire extinguisher placed inside work area and one placed at decen.
4	The quantity, type, percentage with bulk analysis unless presumed and a diagramed location of asbestos materials to be abated.	×		Approximately 250 LF of pipe insulation with fittings and 25 fillings on fiberglass lines containing 7%-40% physicalia
nd l	Abatament methods, and techniques, and numbers of containments, glove bags or mini-containments,	×		Glovebagging procedures,
ف	Details of personal and area air monttoring samples.	×		Personnel⇒ 25% of workforce with a min. of (2), inside work area, outside decon, load out path, decon AFD discharge
ь.	Numbers and locations of Clean Test samples and type of analysis to be employed.	×		(5) PCM clearances achieving 1200 Leach sample
66	Numbers, capacities, a diagram to identify locations, and discharge points, if any, of negative air machines.	×		One AFD at depon exhausted outside
¢i	Details of project containment(s), glove bag or mini-containments, including drawings. Details shall include all applicable subchapters, including but not limited to scaffolding and ilvs electric isolation.	×		All electric within arm's reach and below glowbags will be shut off and boked out prior to procedures. Officels, drop cloths, attached decon and load out
ą	Defails of decontamination system(s).	×		Attached three stage devon adhering to OAC 380,50-15-7,8 and 12.
Ę	The extent to which asbestos-contaminated soils, if any, must be removed, and the sampling methods of determining the efficacy of such removal.	N.A		
12	Special materials or methods required to protect objects in the work area should be detailed, (plywood over carpeting or hardwood floors to prevent damage from scaffolds and/or failing materials.	×		Contractor to protect building and materials that will be re-used after abstement procedures.
m)	Any variances from the Abatement of Friable Asbestos Materials Rules.	NA		
á				

le Department of Laborness the right to require additional engineering or environmental controls consistent with the <u>Abatement of Friable Aspestos Manerals Rules</u> which may be necessary because of some project design and field punditions, or find thank or anges in field conditions.

REVIEWED BY:

DATE: 7/23/12

DATE: 2/23/12

ASBESTOS ABATEMENT PROJECT DESIGN WALTERS ARMORY WALTERS, OKLAHOMA

A. INTRODUCTION: This Project Design was prepared by Enercon Services, Inc., in order to provide a prudent course of action for handling of asbestos abatement of piping insulation in the Walters Armory. Protocols to be used are to protect abatement workers from exposure to airborne asbestos fibers during the work being performed. The building is unoccupied and will remain so until completion of the project.

B. PROJECT INFORMATION:

- 1. <u>Project Name:</u> Asbestos Abatement, Walters Armory
- 2. <u>Description of Work/Occupancy:</u> The work addressed herein involves glove-bagging of line and fitting insulation on piping in the Walters Armory.
- 3. Project Type: Renovation.
- 4. <u>Abatement Contractor:</u> To be determined by bid.
- 5. <u>Industrial Hygiene/Air Monitoring Firm:</u> To be determined by abatement contractor.
- 6. <u>Analytical Laboratory:</u> To be provided by abatement contractor.
- C. REGULATORY COMPLIANCE (1): The specific governing regulations affecting this work include, but are not limited to, 29 CFR 1926.1101 (OSHA Construction Industry Asbestos Standard), 29 CFR 1910.134 (OSHA Respiratory Protection), 40 CFR 61, Subpart M (Asbestos NESHAP) and OAC 380:50 (Oklahoma Rules for Abatement of Friable Asbestos). Waste transport and disposal is to be performed by an Oklahoma-licensed asbestos waste transporter with a waste disposal manifest/chain of custody signed by the receiving landfill. DOT Class 9 placards are to be displayed during transportation of asbestos waste.
- D. WORK SEQUENCING/SCHEDULING (2): The work in the Walters Armory is to be done in one task. The work is to be scheduled by the abatement contractor in coordination with Enercon Services and the Department of Environmental Quality. The work is expected to be planned for 10-hour work shifts on weekdays during normal work hours.
- E. EGRESS AND FIRE PROTECTION (3): In the event emergency evacuation is necessary, the primary exit will be to exit the work area through the decon to the outside of the building. There are multiple exits available for secondary exits. Workers will be briefed on the available exit paths, emergency procedures and the assembly point at the beginning of the work shift. No special fire protection measures are required. One 10#ABC fire extinguisher will be placed inside the work area and one set at the decon. The work area extinguisher will be kept in the vicinity of the work crew.

F. MATERIALS TO BE ABATED (4):

1. <u>Description:</u> The material to be abated is line and fitting insulation on piping throughout the building.



2. <u>Amount, Location and Type of Asbestos-Containing Materials (ACM):</u> There is approximately 250 linear feet of piping insulation with fittings and an additional 25 fittings on fiberglass-insulated lines to be abated. The piping and fitting insulation contains from 35-40% Chrysotile and the fitting insulation on fiberglass-insulated lines contains 7-10% Chrysotile. The laboratory report excerpt is attached.

G. ASBESTOS ABATEMENT METHODS (5):

Line/fitting and fitting insulation will be removed within critical barriers using glove-bag procedures with an attached decon and load-out. Removal of ceiling tiles for piping access may be necessary in some areas prior to prep and hanging of glove-bags. Demolition of portions of the restroom chase wall and walls with piping inside will be necessary for access to piping serving fixtures in the restrooms. Demolition will be done during prep with care taken not to disturb the piping. If the ACM piping insulation is damaged or the demolition for access cannot be completed without damaging the ACM, workers will cease demolition, don full-body suits and full-face respirators to complete the demolition. If ACM debris is encountered when removing ceiling tiles for access to piping for abatement, workers will cease removing ceiling tiles and finish the ceiling tile removal in full-body suits and full-face respirators. The decon will be fully operational and critical barriers will be installed prior to removing ceiling tiles or beginning wall demolition. Poly drop cloths will be placed on the floor beneath the piping during installation of glove-bags. The decon and loadout will be will be erected at the doors into the drill room. Refer to the attached layout for the locations. A 600-1,200 CFM air filtration device (AFD) will be attached to the decon and exhausted outside. Bagged waste may be stored temporarily on a drop cloth in a convenient location inside of the work area awaiting loadout into a waste container. At the end of the work shift or when sufficient waste has accumulated for loadout, the waste will be removed from the storage area and loaded into a poly-lined disposal trailer/van.

H. ASBESTOS AIR MONITORING/RESPIRATORY PROTECTION (6-8): All prep work may be done unprotected unless damaged ACM is encountered during prep or if demolition cannot be completed without disturbing ACM. Full-body protective clothing and full-face APR with HEPA-cartridges will be worn during abatement and any time respiratory protection is required. Full-body protective clothing and half-face APR may be worn during handling and loadout of the double-bagged waste. Personal air samples will be collected on a minimum of two workers or 25%, whichever is greater, during work requiring respiratory protection. One inside area air monitor will be placed inside the work area while abatement is in progress and moved as work progresses. One area monitor will be set outside the decon clean room during abatement and one will be placed along the load-out path during load-out. The decon AFD will be exhausted outside and will be monitored. Piping from which insulation was removed will be locked down using a tinted lockdown encapsulant or spray paint.

Five 1,200 liter PCM clearance samples will be collected in the work area following the visual inspection; approximate locations are noted on attached layout.

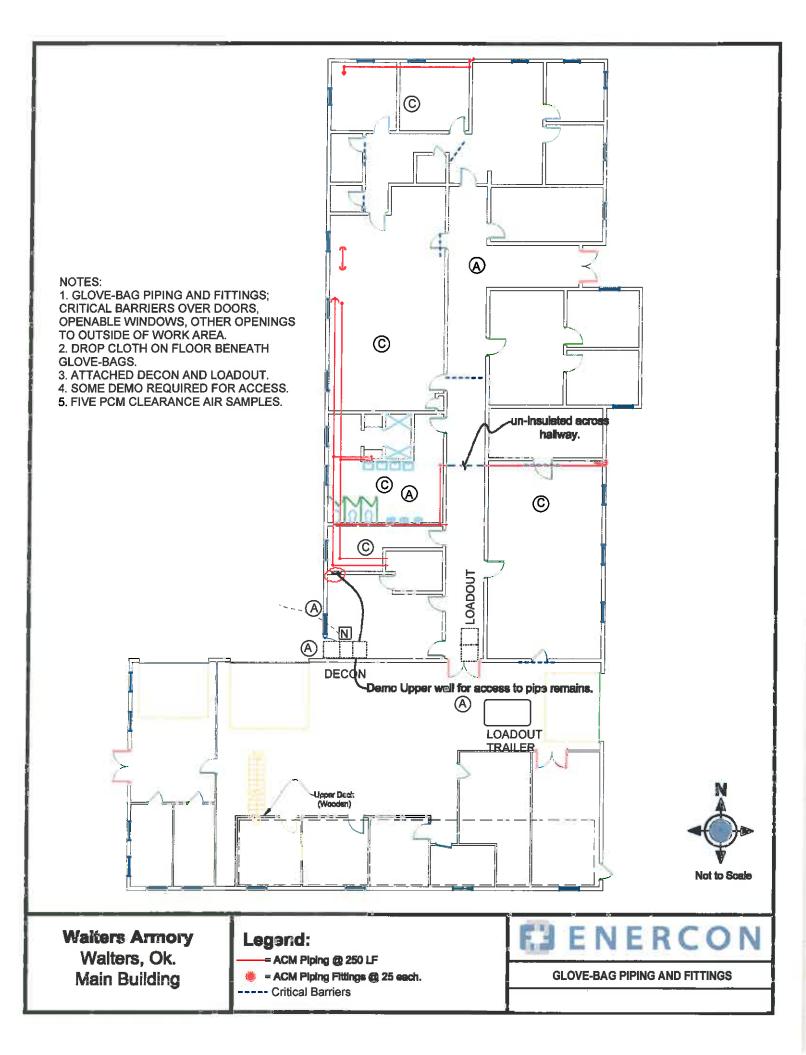
I. LABORATORY CERTIFICATIONS: The laboratory to be used for analysis of personal and area asbestos air samples will determined by the abatement contractor. All air samples will be collected by an experienced Asbestos Air Monitoring Technician qualified to collect and analyze air samples in Oklahoma.

J. CONTAINMENT METHODS (9):

Critical barriers and a drop cloth beneath the piping during glove-bagging will be used. Rolling scaffolding or ladders will be used as necessary to access the piping. Workers will be briefed by the supervisor regarding relevant safety issues associated with the work at the beginning of each work shift. Asbestos barrier tape will be used as necessary to demarcate the regulated area. All electrical circuits within arm's reach of the glove-bags will be shut off and locked out/tagged out in compliance with OSHA 29 CFR 1910.331-336 prior to the ODOL prep inspection. Where lockout/tagout procedures are not sufficient for isolation of electrical circuits, the procedures in OAC380:50-17-4(1) are to be followed. Power for the decon shower, any temporary work lighting, HEPA-vacuums, and AFD for the decon will be supplied through a GFCI-board or pigtails. Power for abatement activities will be obtained from building sources.

- K. DECONTAMINATION SYSTEM (10): An attached three-chambered decon will be used. An AFD will be connected to provide air flow through the decon located at the door to the room south of the restrooms. When arriving at the decon, workers are to enter the dirty room, remove their suits, enter the shower with only their respirator on, remove their respirator and shower with soap and water. After rinsing their body and respirator, they are to proceed into the clean room to dry off, put on their street clothes, clean their respirator and store it for subsequent use. The clean room is to be kept tidy. Water for the decontamination shower will be obtained from nearby sources in the building. Filtered shower effluent will be discharged into the sanitary sewer system serving the building. Procedures set forth in OAC 380:50-15-7, 8 and 12 are to be followed.
- L. SOIL CONTAMINATION (11): No contaminated soils are to be abated in this project.
- M. DAMAGE PROTECTION (12): The contractor will endeavor to protect the building from damage other than that which is necessary for access to the asbestos during abatement activities. Demolition of sections of the restroom chase wall and other walls concealing piping will be required for access to piping inside. Removal of the ceiling tiles will be required where piping is located above a lay-in ceiling. The contractor is to remove the ceiling tiles intact and work through the grid, protecting the grid from damage. He is to stack the tiles in the room from which they were removed for re-installation by others. The contractor is to protect the floor, walls, ceiling and other items in the building during lockdown of the piping to keep them free of encapsulant/paint, except where it may be necessary at wall penetrations.
- N. VARIANCES REQUESTED (13): None.
- O. INSPECTIONS: ODOL is expected to conduct routine prep, in-progress, visual and final inspections for this project.
- P. CERTIFICATION: This design was prepared by the undersigned for compliance with applicable federal and State regulations and approved variances.

Frank Miller J.	
- Keneda	<u>2/20/2012</u> .
Bill Muenker	Date
Asbestos Project Designer,	OKPD-140007





Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 201394

Account Number:

A845

Date Received:

11/03/2011

Received By: Date Analyzed; Barbara Holder

EPA/600/R-93/116

Analyzed By:

11/04/2011

Methodology:

Gayle Ooten

Project: Walters Armory REVISED

Project Location: Walters, OK 608 W-Missouri

Client: Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Project Number: N/A

			-					
QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	1	Non-Asbestos Fiber (%)	1	Non Fibrous
013	WA-7-01	Layered	Gray Pipe Insulation	Asbestos Present Chrysotile	40	Cellulose	15	Binder
013a		Layered	Tan Pipe Insulation	Asbestos Not Present	¥	Cellulose	95	Binder
014	WA-7-02	Layered	Gray Pipe Insulation	Asbestos Present Chrysotile	35	Cellulose	20	Binder
014a	ži.	Layered	Tan Pipe Insulation	Asbestos Not Present	3	Cellulose	95	Binder
015	WA-7-03	Layered	Gray Pipe Insulation	Asbestos Present Chrysotile	35	Cellulose	35	Binder
015a		Layered	Tan Pipe Insulation	Asbestos Not Present		Cellulose	95	Binder
01 5 b	en - 0	Layered	Black Tar Paper	Asbestos Not Present		Cellulose	35	Tar

Utiless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

QuanTEM is a NVLAP accredited TEM and PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any other agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.



Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 201394

Account Number:

A845

Date Received:

11/03/2011

Received By:

Barbara Holder

Date Analyzed:

Methodology:

11/04/2011

Analyzed By:

Gayle Ooten

EPA/600/R-93/116

MONTH Desi

Project: Walters Armory REVISED

Project Location: Walters, OK 608 W-Missouri

Project Number: N/A

NT/A

Client: Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

			-			
QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
016	WA-8-01	Homogeneous	Gray · Pipe Insulation	Asbestos Present Chrysotile 7	Glass Fiber 25	CaCO3 Binder
017	WA-8-02	Homogeneous	Gray Pipe Insulation	Asbestos Present Chrysotile 8	Glass Fiber 25	CaCO3 Binder
018	WA-8-03	Homogeneous	Gray Pipe Insulation	Asbestos Present Chrysotile 10	Glass Fiber 25	CaCO3 Binder
019	WA-9-01	Homogeneous	White Wall Texture	Asbestos Not Present	Cellulose <1	CaCO3 Paint
020	WA-9-02	Homogeneous	White Wall Texture	Asbestos Not Present	NA	CaCO3 Paint
021	WA-9-03	Homogeneous	White Wall Texture	Asbestos Not Present	Cellulose <1	CaCO3 Paint
022	WA-10-01	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose 3	Gypsum

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

QuanTEM is a NVLAP accredited TEM and PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any other agency of the US Government. This report may not be reproduced except in full; without the written approval of the laboratory.



Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 201394

Account Number:

A845

Date Received: Received By:

11/03/2011

Barbara Holder

Date Analyzed: Analyzed By:

Methodology:

11/04/2011

Gayle Ooten

EPA/600/R-93/116

Project: Walters Armory REVISED

Project Location:

Walters, OK 608 W-Missouri

Client: Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Project Number: N/A

QuanTEM Client Color / Non-Asbestos Non Fibrous Sample ID Sample ID Composition Description Fiber (%) Asbestos (%) 023 WA-10-02 Homogeneous White Asbestos Not Present Cellulose Gypsum Sheetrock 024 WA-11-01 Homogeneous White Asbestos Not Present NA CaCO3 Binder Joint Compound 025 WA-11-02 Homogeneous White Asbestos Not Present NA CaCO3 Binder Joint Compound 026 WA-11-03 Homogeneous^{*} White NA CaCO3 Asbestos Not Present Binder Joint Compound 027 WA-12-01 Layered Gray Asbestos Present Cellulose 15 Binder Chrysotile 45 Pipe Insulation 027a Layered Tan Asbestos Not Present Cellulose Binder Pipe Insulation 028 WA-12-02 Layered Gray Asbestos Present Cellulose 20 Binder Chrysotile 45 Pipe Insulation

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

QuanTEM is a NVLAP accredited TEM and PLM laboratory (Lab Code; 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any other agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.



Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 201394

Account Number:

A845

Date Received:

11/03/2011

Received By:

Barbara Holder

Date Analyzed: Analyzed By:

Methodology:

11/04/2011

Gayle Ooten

EPA/600/R-93/116

Client: Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Walters Armory REVISED

Project Location:

Walters, OK 608 W-Missouri

Project Number: N/A

QuanTEM Client Color / Non-Asbestos Non Fibrous Sample ID Sample ID Composition Description Asbestos (%) Fiber (%) 028a Tan Layered Asbestos Not Present Cellulose 95 Binder Pipe Insulation 028b Layered Black Asbestos Not Present Cellulose Tar Tar Paper 029 WA-12-03 Layered Gray Asbestos Present Cellulose 10 Binder Chrysotile 55 Pipe Insulation 029a Layered Tan Asbestos Not Present Cellulose 95 Binder Pipe Insulation 030 WA-13-01 Homogeneous Gray Asbestos Present Glass Fiber CaCO3 Chrysotile 10 Binder Pipe Insulation 031 WA-13-02 Homogeneous Gray Asbestos Present Glass Fiber CaCO3 Binder Chrysotile 10 Pipe Insulation 032 WA-13-03 Homogeneous Gray Asbestos Present Glass Fiber CaCO3 Binder Chrysotile 8 Pipe Insulation

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

QuanTEM is a NVLAP accredited TEM and PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any other agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.

ATTACHMENT 3

Health & Safety Aspects to Consider

Health & Safety Aspects to Consider

Project Goal: To ensure that former National Guard Armories are free of lead dust. Specifically, indoor firing ranges (IFR's) and other areas that contain lead contamination.

Please Note: the following information is from the Departments of the Army and the Air Force, National Guard Bureau, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges (Attachment 4).

Health and Medical Aspects

Health Effects

29 Code of Federal Regulations (CFR) 1910.1025, Appendix A, identifies lead as a highly toxic metal. Elemental lead is indestructible and common in the environment. Lead can enter the body by inhalation (breathing) or ingestion (eating). In addition, lead is a cumulative poison. It accumulates in the blood, bones, and organs, including the kidneys, brain and liver. Effects include nervous and reproductive system disorders, delays in neurological and physical development, cognitive and behavioral changes, and hypertension. Symptoms include loss of appetite, difficulty sleeping, irritability, fatigue, headache, and inability to concentrate. It can stay in the bones for decades. Worker awareness and training are important to ensure that employees can recognize the symptoms of exposure and get prompt medical attention.

Medical Surveillance for occupational Exposure to Lead

- a. 29 CFR 1910.1025(j)(i-ii), Medical Surveillance General: "The employer shall institute a medical surveillance program for all employees who are or may be exposed above the action level for more than 30 days per year. The employer shall assure all medical examinations and procedures are performed by or under the supervision of a licensed physician."
- b. The DOD 6055.5-M, Occupational Medical Surveillance Manual Table 2-I lists medical surveillance criteria for employees "who are or may be exposed above the action level for 30 days/year."

Personal Protective Equipment

29 CFR 1910.1025(f)(2), for housekeeping and rehabilitation the employer shall select respirators from among those approved for protection against dust, fume, and mist by the National Institute for Occupational Safety and Health (NIOSH), under the provision of 42 CFR part 84. The employer shall institute a respiratory protection program in accordance with 29 CFR 1910.134(b), (d), (e), and (f). As a minimum, personnel conducting the decontamination of the range shall be provided with the following personal protective equipment.

- a. Under 29 CFR 1910.1025 (g). For employees engaged in range rehabilitation and/or range conversion, the employer shall provide at no cost to the employee, and ensure that the employee uses appropriate protective work clothing and equipment such as, but not limited to:
 - (1) Protective coveralls with hood and shoe covers or disposable Tyvek TM full body suit.
 - (2) Disposable rubber gloves; and disposable shoe coverlets (If necessary).
 - (3) Full-face air purifying respirator with P-100 cartridges.
 - b. The employer shall provide the clothing required in a clean and dry condition at least daily to employees engaged in the conversion of IFRs.
 - c. The employer shall provide for the cleaning, laundering, or disposal of used or contaminated protective clothing and equipment.
 - d. The employer shall assure that all protective clothing is removed at the completion of a work shift only in areas designated for that purpose (Change Areas or Change Rooms).
 - e. The employer shall ensure that contaminated protective clothing that is to be cleaned, laundered, or disposed of, is placed in a closed container in the change area that seals sufficiently enough to prevent dispersion of lead dust.
 - f. The employer shall further inform in writing any person who cleans or launders protective clothing or equipment of the potentially harmful effects of exposure to lead.
 - g. The employer shall ensure that the containers of contaminated protective clothing and equipment are labeled as follows: CAUTION: CLOTHING
 CONTAMINATED WITH LEAD. DO NOT REMOVE DUST BY BLOWING OR SHAKING. DISPOSE OF LEAD CONTAMINATED WASH WATER IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, OR FEDERAL REGULATIONS.

Education, Maintenance, Cleaning and Conversion

Worker Education

- a. 29 CFR 1910.1025, Appendix 13, requires an information and training program for all employees exposed to lead above the action level or who may suffer skin or eye irritation from lead. The program must inform the employees of the specific hazards associated with their work environment, protective measures which can be taken, the danger of lead to their bodies (including their reproductive systems), and their rights under the standard. In addition you must make readily available to all employees, including those exposed below the action level, a copy of this standard and its appendices. This training program shall be repeated annually for personnel in range cleanup operations.
- b. The supervisor shall ensure that each individual employee is informed of the following:
 - (1) The content of the standard and its appendices.
 - (2) The specific nature of operations that could result in exposure to lead above the action level.
 - (3) The purpose, proper selection, fitting, use, and limitations of respirators.
 - (4) The purpose and a description of medical surveillance program.
 - (5) Eating and drinking are prohibited in lead contaminated areas.
 - (6) Smoking and smoking materials shall not be permitted in contaminated areas.
 - (7) Employees must wash their hands and other exposed skin whenever they leave the work area.
 - (8) The engineering controls and work practices associated with the individual's job assignment.
 - (9) The contents of any compliance plan in effect.
 - (10) Instructions to employees that chelating agents should not routinely be used to remove lead from their bodies and should not be used at all except under the direction of a licensed physician.

REFERENCES

Section 1 Required Publications

There are no entries in this section

Section II Related Publications

ASTM E1792-03

Standard Specification for Wipe Sampling Materials for Lead in Surface Dust

AR 11-34

The Respiratory Protection Program

AR 40-5

Preventive Medicine

DODI 6055.5

Industrial Hygiene and Occupational Health

DOD 6055.5-M

Occupational Medical Surveillance Manual

29 CFR, Part 1910

Occupational Safety and Health Administration, Department of Labor

National Institute for Occupational Safety and Health (NIOSH) 76-130

Lead Exposure and Design Considerations for Indoor Firing Ranges, Department of Health, Education and Welfare

NGR 385-15

Policy and Responsibilities for Inspection, Evaluation and Operation Army National Guard National Guard Indoor Firing Ranges (IFRs).

NGR 415-5

Army National Guard Military Construction Program Development and Execution

NGR 420-10

Construction and Facilities Management Office Operations

Technical Manual, 5th Edition

Occupational Safety and Health Administration, Department of Labor Section III

ATTACHMENT 4

DEQ Approved Lead-Based Paint Encapsulants List

Lead-Based Paint Encapsulants approved by DEQ

Encapsulant Manufacturer	Encapsulant Product(s)
Coronado Paint Company	LEAD BLOCK [™]
Dumond Chemicals	LEAD STOP [™]
Dynacraft Industries, Inc.	Back to Nature Protect-A-Coat
Encap Systems Corporation	EncapSeal TM I
Encap Systems Corporation	EncapSeal [™] II
Fiberlock Technologies, Inc.	Child GUARD interior/exterior
Fiberlock Technologies, Inc.	L-B-C® Type III
Global Encasement, Inc.	LeadLock [™]
Grace Construction Products	Lead Seal®
Grace Construction Products	Barrier Coat® II
Insl-x Products Corporation	INSL-CAP TM
SAFE Encasement Systems	SE-120 Protective Skin
Specification Chemicals, Inc.	NU-WAL® #2500 Coating

ATTACHMENT 5

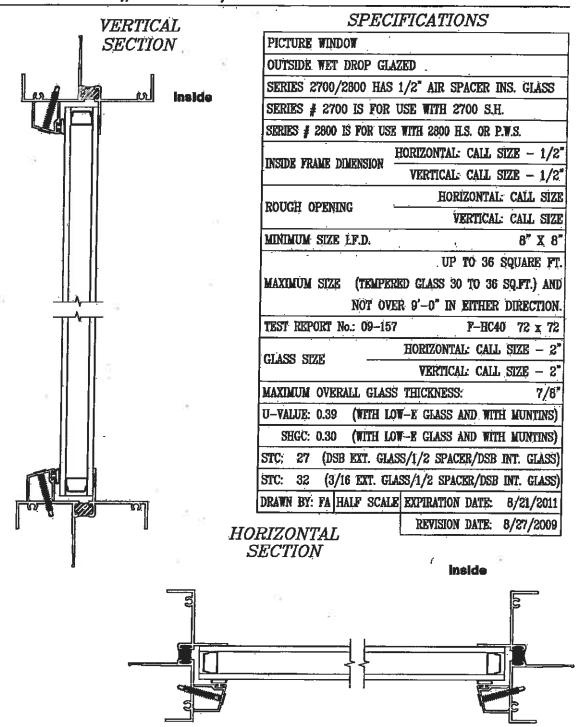
Lead-Based Paint Inspection Report and Survey for Lead in Settled Dust Report For Walters Armory

ATTACHMENT 6

REPLACEMENT WINDOW SPECIFICATIONS



SERIES # 2700/2800 PICTURE WINDOW



ATTACHMENT 7

REPLACEMENT DOOR SPECIFICATIONS

SECTION 07920 - JOINT SEALANTS

PART I - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data.
- B. Warranty: Warranty materials and workmanship of sealing against leaks, adhesion, and cohesive failure for a period of two years from the date of substantial completion.
- C. References:
 - 1. American Society for Testing and Materials
 - a) ASTM C790 Recommended practices for use of latex sealing compounds.
 - b) ASTM C920 Elastomer Joint Sealants.
 - 2. Federal Specifications
 - FS TT-S-00230C (2), Sealing Compound, Elastomeric Type, Single Component (for caulking, sealing and glazing in buildings and other structures).
 - FS TT-S-00227E (3), Sealing Compound, Elastomeric Type, Multi-component (for caulking, sealing and glazing in buildings and other structures).

PART 2 - PRODUCTS

2.1 JOINT SEALANTS

- A. Compatibility: Provide joint sealants, joint fillers, and other related materials that have been tested and found compatible with one another and with joint substrates under service and application conditions.
- B. Interior Scalant: Provide ASTM C 834. If no color is specified, use Gray. Location(s) of scalant for the following:
 - Small voids between walls or partitions and adjacent door frames, and similar items.
 - Perimeter of frames at doors, windows, and access panels which adjoin exposed interior concrete and masonry surfaces.
- C. Exterior Sealant: Provide ASTM C 920, polyurethane or polysulfide, Type M, Grade NS, Class 25, Shore A hardness of 20-40. If no color is specified, use Gray. Location(s) of sealant for the following:
 - Joints and recesses formed where frames and vents adjoin masonry, concrete, or metal frames. Use sealant at both exterior and interior surfaces of exterior wall penetrations. Color to match adjacent surface.

2.2 ACCESSORIES

- A. Primers: Provide a nonstaining, quick-drying type and consistency recommended by the sealant manufacturer for the particular application.
- B. Bond Breakers: Provide the type and consistency recommended by the sealant manufacturer to prevent adhesion of the sealant to backing or to bottom of the joint.
- C. Cleaning Solvents: Provide type(s) recommended by the sealant manufacturer, except for aluminum and bronze surfaces that will be in contact with sealant.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Clean surfaces from dirt frost, moisture, grease, oil, wax, lacquer, paint, or other foreign matter that would tend to destroy or impair adhesion. Remove oil and grease with solvent. Surfaces must be wiped dry with clean cloths. When resealing an existing joint, remove existing calk or sealant prior to applying new sealant. For surface types not listed below, contact sealant manufacturer for specific recommendations.
 - Steel Surfaces: Remove loose mill scale by sandblasting or, if sandblasting is impractical or would damage
 finish work, scraping and wire brushing. Remove protective coatings by sandblasting or using a residue-free
 solvent.
 - 2. Aluminum or Bronze Surfaces: Remove temporary protective coatings from surfaces that will be in contact with sealant. When masking tape is used as a protective coating, remove tape and any residual adhesive just prior to sealant application. For removing protective coatings and final cleaning, use nonstaining solvents recommended by the manufacturer of the item(s) containing aluminum or bronze surfaces.
 - Concrete and Masonry Surfaces: Where surfaces have been treated with curing compounds, oil, or other
 such materials, remove materials by sandblasting or wire brushing. Laitance, remove efflorescence and loose
 mortar from the joint cavity.

- Wood Surfaces: Keep wood surfaces to be in contact with sealants free of splinters and sawdust or other loose particles.
- B. Do not add liquids, solvents, or powders to the sealant. Mix multi-component elastomeric sealants in accordance with manufacturer's instructions.

3.2 INSTALLATION

1.

 A. Joint Width-to-Depth Ratios: Install per manufacturer's recommendation or as described below, whichever is more stringent.

Acce	ptable R	atios:	Minimum	Maximum	
a)	For n	netal, glass, or other nonporous surfaces:			
	(1)	1/4 inch (6 mm) (minimum)	1/4 inch (6 mm)	1/4 inch (6 mm)	
	(2)	Over 1/4 inch (6 mm)	1/2 of width	Equal to width	
b)	For v	vood, concrete, masonry, or stone:			
	(1)	1/4 inch (6 mm) (minimum)	1/4 inch (6 mm)	1/4 inch (6 mm)	
	(2)	Over 1/4 inch(6 mm) to 1/2 inch (13 mm)	1/4 inch (6 mm)	Equal to width	
	(3)	Over 1/2 inch (13 mm) to 2 inch (50 mm)	1/2 inch (50 mm)	5/8 inch (16 mm)	
	(4)	Over 2 inch (50 mm)	(As recommended		

Unacceptable Ratios: Where joints of acceptable width-to-depth ratios have not been provided, clean out
joints to acceptable depths and grind or cut to acceptable widths without damage to the adjoining work.
Grinding is not required on metal surfaces.

B. Masking Tape: Place masking tape on the finish surface on one or both sides of a joint cavity to protect adjacent finish surfaces from primer or sealant smears. Remove masking tape within 10 minutes after joint has been filled and tooled.

C. Immediately prime prior to application of the sealant, clean out loose particles from joints. Where recommended by sealant manufacturer, apply primer to joints in concrete masonry units, wood, and other porous surfaces in accordance with sealant manufacturer's instructions. Do not apply primer to exposed finish surfaces.

D. Provide bond breakers to the back or bottom of joint cavities, as recommended by the sealant manufacturer for each type of joint and sealant used, to prevent sealant from adhering to these surfaces. Carefully apply the bond breaker to avoid contamination of adjoining surfaces or breaking bond with surfaces other than those covered by the bond breaker.

E. Provide a scalant compatible with the material(s) to which it is applied. Do not use a scalant that has exceeded shelf life or has jelled and can not be discharged in a continuous flow from the gun. Apply the scalant in accordance with the manufacturer's printed instructions with a gun having a nozzle that fits the joint width. Force scalant into joints to fill the joints solidly without air pockets. Tool scalant after application to ensure adhesion. Make scalant uniformly smooth and free of wrinkles. Upon completion of scalant application, roughen partially filled or unfilled joints, apply scalant, and tool smooth as specified. Apply scalar over the scalant when and as specified by the scalant manufacturer.

F. Thresholds: Place double band of sealant under and along all sides of all exterior thresholds.

END OF SECTION 07920

Install a pre-hung

Steelcraft'

COMMERCIAL

UL LISTED

1½ HR (B) LABEL

non-listed or listed

steel frame.

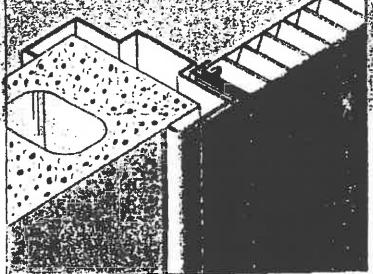
REPLACEMENT

DOOR UNIT

New beauty and security for worn out doors.

The Steelcraft Commercial Replacement Unit is the only product of its kind specifically designed for the Fefab market. Fits these nominal sizes 2888, 3668, 3688, 4088, 2870, 3070, 3670, 3870, 4070 single, and 5468, 5068, 5470 and 8070 double doors.

- Does not require removal of existing frame.
- · Fits an "out-of-square" opening.
- Works with grouted or nongrouted frames.
- installs quickly and easily.
- Includes rugged steel adapter frame.
- Permits door swing to be changed without major rework.
- Fills opening without re-mortising and filling herdware cutouts.
- Can be installed in existing steal or wood frame.
- · Provides additional security.





QUICK.

 Remove old door, hardware, sift and any other item(a) projecting into. opening.



'N EASY

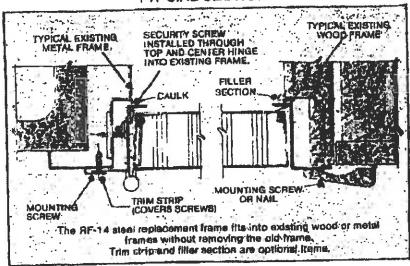
2. Sot are-hungunit into frame opening. Install mounting occave through face, cut bending and install abounity acraws.



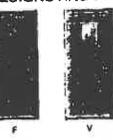
INSTALLATION

 Mount hardware as required. Paint.

TYPCIAL SECTION



DESIGNS AND FINISHES AVA





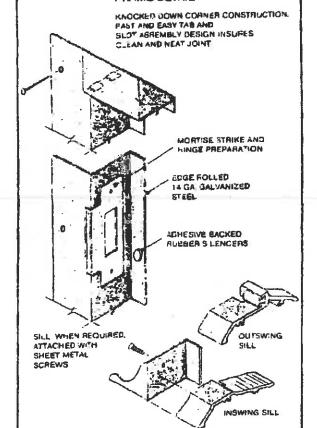






LOUVERS





Frame ,5 furvished without 9-ll as atanda. D. Albahia weri landtona in Janotho ar Janotho ar Albahia weri arbahia ar

SPECIFICATIONS.

Commercial Replacement Unit shall be supplied as a complate:unit, consisting of 16 ga. door (AL-18) and 14 ga frame

Single openings shall be pre-hung, ready for quick and easy installation. Double openings shall be supplied as separate units frame and two door leaves) not pre-hung.

Doors shall conform to the following:

Coors shell be as manufactured by Steelcraft, Cincinnoti, Onio, and designated as Rt. 16 (**4" 18 ga. steel).

Doors shall be rabricated from cold rolled atset.

Doors shall have 'A" bevol in 2" on hings and lock edges. Doors thail have verticatined an cal interlocking seams or hings and lock rages with visible edge seam .

Doors sher be provided with top and bottom inverted steel

channels spotwelded within the door. Doors shall be reinforced, effensed and sound deadened with it pragrated stafftoney.comb care completely filling the inside of the door and similated to the insidefaces of canels.

Doors shall be morrised and adequately reinforced for all PRECIVEES.

to tago and evicees and page and people on trace aroof. taked-on some paint.

Frames shall conform to the following:

Frames shall be as manufactured by Steelcraft Con-cionati Ohio and designated as FiF-14 (14 qa.).

Frames shall be accurately formed from gatvanized steel Frames shall be furnished knocked down (KO). Corners sna I have tabs for secure and easy interlocking of jambs to head at each corner.

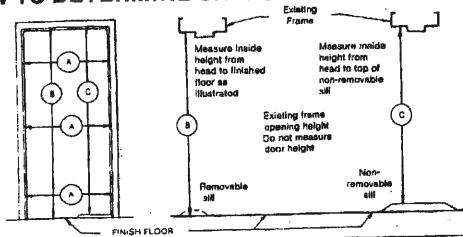
Frames shall be adequately reinforced for all hardware. Frames shall be supplied with anneave backed number pumpers three per strike lamb, two per double door frame

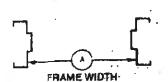
Frames shall be phosphatized and receive one cost of caked-on prime paint

*Single openings are designed to be pre-hung and installed. Units are supplied KD for pre-hanging at lob late or by distributor.

年 24 知能

HOW TO DETERMINE SIZE OF EXISTING FRAME





Viegaure in 3 places. Use narrowest dimension for ordering

NOTE: ORDER UNITS BY NOMINAL SIZES. DO NOT ORDER BY ACTUAL DIMENSIONS.

10 PM 10 PM	· FITS	THESE EXIS	TING OPENI	NGS
SCAE	À W	ртне ј	8 C	HEIGH78
(lenimoli)	MIN	MAX.	MIN	MAX
28" × 6'8"	31%"	32.4	79%	80%
3:0" × 6'8"	35%	30%	, 79W	80%
3:8" x;8'8"	41,16".	42 6	79%	aow"
3/6".x 6!6"	4012	44編 👵	79%	SOW"
4'00'x 6'8"	47%	46%	79%	80%
2:8" x.7'51"	31%	32.6	83%	844
.3'0" ×'7'0"	35%"	36%	8346	84/6
3654705	417	429000	83%	64%
38'-x7'0'	43%	44%	1 38% ·	84%
40" x 710"	47.5	48W	83%	64%
54" x 6'8"	83%	84%	79%	BOW"
5'0" x 6'8":	71%	7247	79/2	80%
54" x-7'0"	6396	8434	83%	B4W
6'0" x 7'0"	7.140	72%	8316"	84 WA

MAX. OPENING HEIGHT MAY BE EXCEEDED BY BLOCKING DOWN EXISTING OPENING.

TO HAND A DOOR — FACE IT FROM THE OUTSIDE OR KEYSIDE						
LEFT HAND Hingas on Left Opens in Head	RIGHT HAND Hinges on Right Opens Irward	LEFT HAND REVERSE Hinges on Left Opers Dutward	FIGHT HAND REVERSE Hings on Fight Cpens Outward			
LEFT HAND Hingas on Lult Opens Inward	RIGHT HAND	REVERSE Hinges on Lell Opens Outwara	RIGHT HAND REVERSE Inges on Right Opens Durward			



الله على مولى مساف الربايات الما الوريد. معالية

FINISH PAINTED AND WOOD GRAIN FINISHES

HARDWARE

Replacement Units shall be prepared for the following: hardware: Hindea:

1-1/2 pair of 4-1/2 x 4-1/2 x. 134 template hinges Luck and Strike

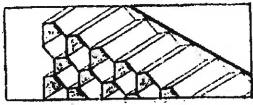
Bovernment 161 (ANSI-A1 15.2) cylindrical or Government 88 (ANSI-A115.1) mortise look with an ANSI-At 15.1 or .2 strike ...

Consult distributor for other hardware preparations.

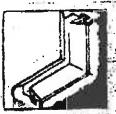
	NOMINAL IFINISHED		NOMINAL FRAME SIZE		DOOR SIZE"	
	SIZE	WIDTH	HEIGHT	WIDTH	HEIGHT	
	286B	31"		30-13/16"		
	3068	35"] [34-13/16"	Į.	
	3668	41"	79%	40-13/-6"	79W"	
	3868	43"		42-13/1 0 "	j	
<u>ا</u> لا	4068	47	<u> </u>	46-13/15"	<u> </u>	
SINGL	2870	31"		30 13/15"	!	
ம்	3070	35"	1 #3% ·	34-13/16"	ļ	
	3670	4*"		40-13/16"	82%"	
•	3870	4.3	1 (42-13/16"		
- {	4070	47	[46-13/18"	L	
	5468	63"	701	30-13/16" & 31-13/16"	78%	
Œ	6068	7	79%	34-13/16" 4 35-13/16"	1,37	
PAIR	5470	ŝ3"	93""	30-13/16" 4 31- 3/16"	82%"	
ļ	6070	/1"	83%	34-13/16" 8-35-13/18"	L	

FOR PAIRS OF DOORS INACTIVE LEAF IS 1" WIDER THAN ACTIVE LEAF CONSULT DISTRIBUTOR FOR OTHER SIZES

DOOR DETAILS



Full honeycomb core of phenotic realn-impregnated kraft taper reinforces the door every 1 inch, providing superiative resistance to impact and essuring a fint surface.



Vinulant Gest tild ... (snap-in.)

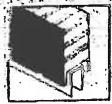


8-gage Inick: hinge reinforcement.





Steeling and botto delerology on annual tiff:grage:closer rein iforcement when



Door buttom with . nedw geowe elduce f beringer



insulated doors une pound polystyrane, core 1 % paund polyurethane core when required.

PAIRS OF DOORS



Designe shown may be com-bried for pairs of doors. Pairs of doors consist of two leaves and a 14 ga steet 2' astragal field mounted to mactive test of pair inactive leaf may be secured with flush bolts or aurince polls.

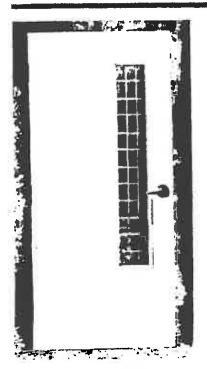
Note: For pairs of doors, right hand will be active, unless apocirically ordered.

STEELCRAFT

L18 AND L16-SERIES HONEYCOMB DOORS







ABOUT THE PRODUCT:

The L18 and L16-Series Flush Doors are designed to meet the architectural requirements for full flush doors. This premium door construction combines the strength and dimensional stability of steel with the structural integrity of the honeycomb core. The continuous bonding of core to metal provides an attractive flat door, free of face welding marks. Tests have proven that the L-Series door has integral high resistance to impact damage, low thermal conductivity, and high STC ratings.

To meet application, specification and performance requirements, the L-Series doors offer a wide range of specifiable options including sizes, glass lite designs, hardware (mechanical, pneumatic, electrical) preparations and edge constructions.

FEATURES AND BENEFITS:

Steelcraft's L-Series Doors offer the following standard unique features, which enhance long term performance and durability.

- Honeycomb core system enhances the structural integrity of the door, while significantly reducing the weight.
- Full height, epoxy filled mechanical interlock edges provide structural support and stability the full height of the door edges.
- Patented universal hinge preparations allow for easy field conversion from standard weight (.134) hinges to heavy weight (.180) hinges.
- 14 gage top and bottom channels provide stability and protection for the top and bottom edges from abuse.
- Beveled hinge and lock edges allow for tighter installation tolerances, ensure easier operation, and eliminate binding and sticking.
- Recessed Dezigner™ glass trim provide a clean, neat, and flush finish with the door surface.
- Factory applied baked on rust inhibiting primer in accordance with ANSI A250.10.

SPECIFICATION COMPLIANCE:

- Door construction for the Steelcraft L18 and L16-Series Full Flush Doors meet the requirements of ANSI A250 8-1998 (commonly referred to as SDI-100)
- Hardware preparations and reinforcements are in accordance with ANSI A250.6-1997. Locations are in accordance with ANSI/DHI A115.

FIRE RATINGS:

The L-Series doors meet the broadest fire rating requirements. They are listed for installations requiring compliance to both negative pressure testing (ASTM E152 and UL-10B) and positive pressure standards (UBC 7-2 and UL-10C)

Steel Thickness	Opening	Usage Frequency ¹	Frame Applications
16 gage (1 3mm)	Interior & Exterior	Extra-heavy duty	16 & 14 gage steel frames
18 gage (1mm)	Interior & Exterior	Heavy duty	 16 gage steel frames
Steel Type	Opening	Building Applie	catione
Non Galvannealed ³	Mainly Interior	Typical buil	Iding conditions
Galvannealed ²	Mainly Exterior	Used in loc	cations with high humidity and/or weather exposure

MATERIAL:

Depending on environmental conditions, exterior doors are generally galvannealed and interior doors non galvanneal. All doors are supplied with a factory applied baked on primer for tield applied finish paints.

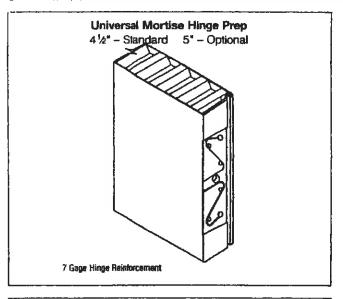
Usage frequency is based on ANSI A250 8-1998

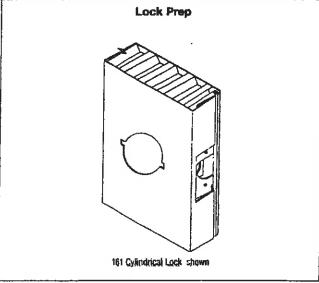
² Reinforcements for galvannealed doors are also galvannealed

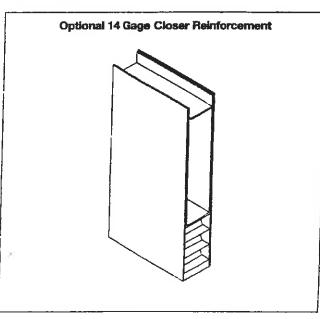
^a Commercial quality carbon steel

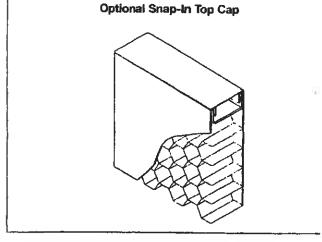
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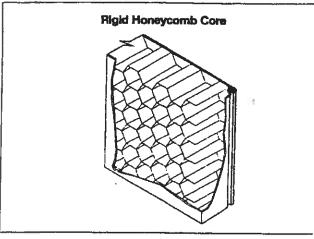






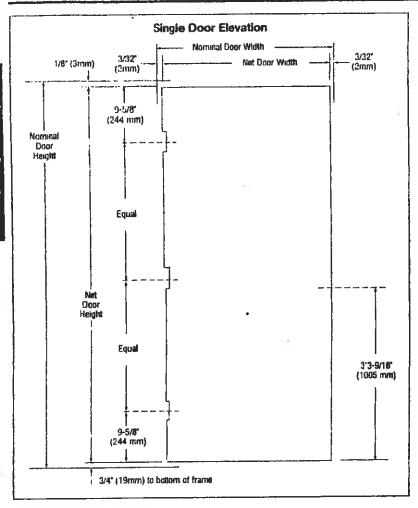






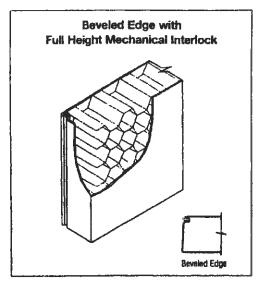
GENERAL NOTES:

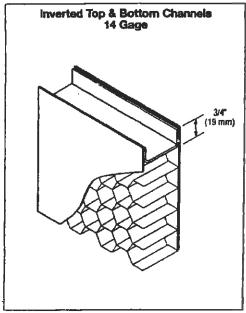
- 1. Edge construction:
 - Vertical edges (both hinge and lock) are beveled with a visible seam.
 - Top and bottom edges are closed with inverted 14 gage welded channels. Exterior applications require the addition of snap-in top caps to protect against the weather.
- Optional edge seams available in the L-Series door construction are as follows;
 - LF The mechanical edge seam is filled and finished prior to applying the factory primer.
 - LW The mechanical edge seam is welded and finished prior to applying the factory primer.
- 3. Optional cores available in the L-Series door construction:
 - Polystyrene for exterior applications in extreme weather conditions.
 - Polyurethane for exterior applications in arctic weather conditions. Not Fire Rated.
- Standard hardware preparations: standard mortised and reinforced for:
 - Universal hinge preps 4½"(114mm) patented preparation which allows easy and quick field conversion from standard to heavy weight hinges.
 - Locks -- A multitude of standard lock preps are available. The most commonly used with a 476* (124mm) strike are 161, 61L and 86.

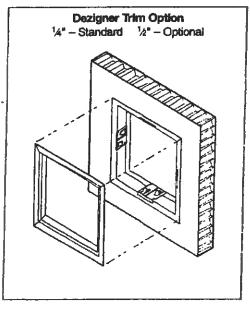


CONSTRUCTION NOTES:

- 1. Doors are 134" (45mm) thick.
- Door opening size maximum:
 Single door opening size 4'0" x 10'0" (1219mm x 3048mm)
 Double door opening size 8'0" x 10'0" (2438mm x 3048mm)
- Standard operating clearances (installed in frame):
 Head = ½" (3mm) to bottom of head or transom panel
 Hinge and lock side = ½2" (2mm) to rabbet on jamb
- 4. Standard core system:
 - 1" (25mm) cell Kraft honeycomb core is laminated to both face sheets with contact adhesive. The honeycomb is phenolic resin impregnated and sanded to insure ultimate lamination and performance. To further enhance the structural stability of the door the honeycomb core material is subjected to several unique operations prior to assembly. If any of these operations are eliminated, the strength and durability of the door is compromised.
- Hardware preparations: to meet specifications, doors can be prepared for all commercial mortised hardware, and can be factory reinforced for surface applied hardware applications.
 - Lock preps details and dimensions shown are for cylindrical (ANSI 115.2) type locks. For mortise (ANSI A115.1) locks, the centerline of the lock is located 3/n (9mm) lower.
- Glass lites with Dezigner trim and louvers: doors with glazed cutouts
 and doors with louvers are available (see Lites and Louvers section of Spec
 Manual).







STEELCRAFT.

INSTALLATION:

- 1. Installation shall conform to the published Steelcraft installation instructions, SDI 105 Recommended Installation Instructions for Steel Frames, and ANSI/DHI A115-IG Installation Guide for Doors and Hardware.
- 2. Fire Rated Assemblies must be in accordance with NFPA Pamphlet 80. The Authority Having Jurisdiction is the final authority in issues related to the installation and use of installed Fire Rated Doors.

DOOR EDGE APPLICATIONS:

The L-Series Doors are used in virtually all buildings and construction applications. The application and functionality dictate the door edge construction specified.

Edge	Usage	Application
L	Heavy & Extra-heavy duty	High traffic in all commercial applications
UF	Heavy & Extra-heavy duty	High traffic, in sanitation conditions
LW	Heavy & Extra-heavy duty	High traffic, in sanitation and high abuse conditions

CONVERSION CHART

ANSI A250.8 (SDI 100) Recommended Specification for Standard Steel Doors and Frames.

Standard Steel Doors and The			Landon Indian	Edge Construction	
O-vice.	Level	. Model	Description	and an interpretation of the	
Series		4	Full Flush	Full height, visible mechanical interlocked edge	
L18	2		Seamless	L-Series with epoxy filled edge seams	
LF18	2	2		1 Corine with welderliedge seams	
LW18	2	2	Seamless	Full height, visible mechanical interlocked edge	
	2	1	Full Flush	Full height, visible integration in a	
L16			Seamless	L-Series with epoxy filled edge seams	
LF16	3		Seamless	L-Series with welded edge seams	
LW16	3	2	OR4118099		
Latio					

DOUBLE DOOR APPLICATIONS:

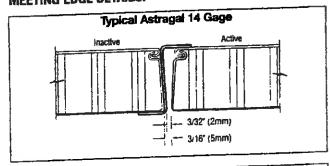
L-Series doors are available in double door elevations, with active and inactive leaves and an overlapping astragal.

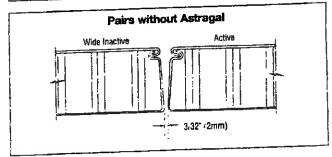
- Standard operating clearances (installed in frame):
 - Head = 1/6* (3mm) to bottom of head or transom panel
 - Hinge side = ³/₂₂* (2mm) to rabbet on jamb
 - Meeting edges = 3/2" (2mm) with or without astragal. For openings without an astragal, a wide inactive leaf is used.
 - Bottom = ¾* (19mm) to bottom of frame

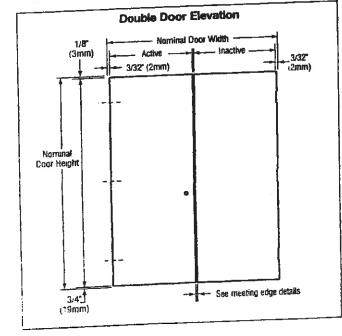
Meeting edges:

- 14 Gage astragal is furnished loose for installation in the field by others.
- Overlapping astragal kits are available to convert an active leaf to an inactive leaf.
- When an astragat is not used, the width of the inactive leaf is increased 3/32" (2mm).
- Hardware preparations: the inactive leaf can be prepared for hardware as specified.

MEETING EDGE DETAILS:







C--- Manual

Architectural Hing



Five Knuckle

Plain Bearing - Standard Weight

For use an medium weight doors or doors requiring low frequency service

1191 Brass with Stainless Steel pin - ANSI A2133

Stainless Steel with Stainless Steel pin - ANSI A5133

1279 Steel with Steel pin

· Non-rising removable pin with button tip and plug

. With door closer use ball bearing hinge

Hinge	Hinge Size		Hinge Size Gauge of Hole		Hole	Screw Slaw	
Inches	min -	Motal	Count	Machine	> Woods		
2 x 2	51 x 51	0.083	4	-21	3/4 x 8		
21/2 x 21/2	64 x 64	0.089	6		3/4 x-8		
3 x 3	76 x 76	0.097	6	-	1 x 9		
31/2 x 31/2	89 x 89	0.119	6	1/2 x 10-24	1 x 9		
4 x 4	102 x 102	0.129	8	1/2 × 12-24	11/4 x 12		
41/2 x 4	114 x 102	0.134	8	1/2 x 12-24	11/4 x 12		
41/2 x 41/2	114 x 114	0.134	8	1/2 x 12-24	11/4 x 12		
5 x 4	127 x 102	0.145	8	1/2 x 12-24	11/4 x 12		
5 x 41/2	127 x 114	0 145	8	1/2 x 12-24	11/4 x 12		
5 x 5	127 x 127	0 145	8	1/2 x 12-24	11/4 x 12		
6 x 41/2	152 x 114	0.160	10	1/2 x 1/4-20	11/2 x 14		
6 x 5	152 x 127	0 160	10	1/2 x 1/4-20	11/2 x 14		
6 x 6	152 x 152	0 160	10	1/2 x 1/4-20	11/2 x 14		

Five Knuckle



Plain Bearing - Standard Weight - Wide Throw

For use an medium weight doors or doors requiring low frequency service

1191 Wide Throw

Brass with Stainless Steel pin - ANSI A2133

Stainless Steel with Stainless Steel pin

- ANSI A5133

1279 Wide Throw

Steel with Steel pin - ANSI A8133

· Non-rising removable pin with button tip and plug

· With door closer use ball bearing hinge

Hing	e Stze	Gauge of	Hole	Screw	Slzá
Inches	m _m	Metal	Count	Mackine	Wood
31/2 x 5	89 x 127	0.119	6	1/2 x 10-24	1 x 9
31/2 x 6	89 x 152	0.119	6	1/2 x 10-24	1 x 9
4 x 5	102 x 127	0 129	8	1/2 x 12-24	11/4 x 12
4 x 6	102 x 152	0.129	8	1/2 x 12-24	11/4 x 12
4 x 7	102 x 178	0 129	8	1/2 x 12-24	11/4 x 12
41/2 x 5	114 x 127	0 134	6	1/2 x 12-24	11/4 x 12
41/2 x 6	114 x 152	0.134	8	1/2 x 12-24	1 1/4 x 12
41/2 % 7	114 x 178	0.134	8 1	1/2 x 12-24	11/4 x 12
41/2 x 8	114 x 203	0.134	8	1/2 x 12-24	11/4 x 12
5 x 6	127 x 152	0.145	8	1/2 x 12-24	11/4 x 12
5 x 7	127 x 178	0.145	8	1/2 x 12-24	11/4 x 12
5 x 8	127 x 203	0.145	8	1/2 1 12-24	11/4 x 12

Concealed Bearing - Standard Weight

For use on medium weight doors or doors requiring medium frequency service

CB1191 Stainless Steel with Stainless Steel pin - ANSI A5112

- · Non-rising removable pin with button tip and plug
- · Only available with SecureCoat® Lifetime finish (US3SC)
- · Specify machine screws

Hinge Size		Gauge of	Hole	Screw Size	
Inches	ma	Metal	Count	Machine	Wood
31/2 × 31/2	89 x 89	0 119	6		1×9
4 x 4	102 x 102	0 129	8		11/4 x 12
41/2 x 4	114 x 102	0 134	8	-	17/4 x 12
41/2 × 41/2	114 x 114	0.134	8		11/4 x 12
5 x 4	127 x 102	0.145	8	-	11/4 x 12
5 x 41/2	127 x 114	0.145	8		11/4 x 12
5 x 5	127 x 127	0.145	8	- 1	11/4 x 12
6 x 41/2	152 x 114	0.160	10	-	11-2 × 14
6 x 5	152 x 127	0.160	ារា	- "	11/2 x 14
6 x 6	152 x 152	0.160	10	- 1	13/c x 14



NATIONAL GUARD PRODUCTS, INC.

Vinyl Seals

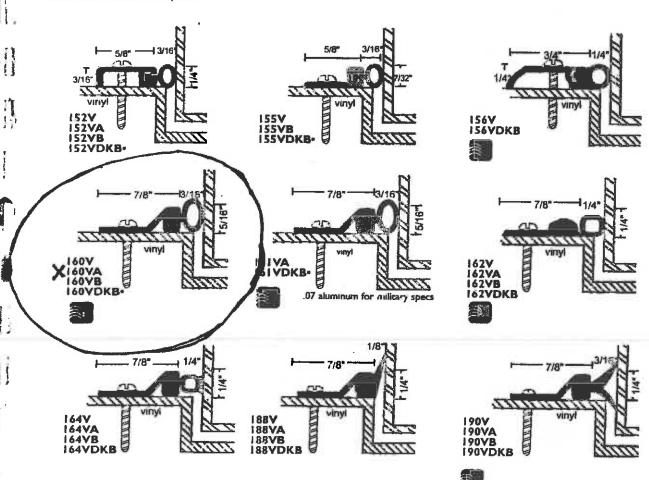
Properties:

- · Synthetic polymer: Polyvinyl Chloride
- Economical
- · Flame resistant
- · Moisture resistant
- Temperature range OF to 140F
- Plasticizers evaporate with age and exposure to UV, Cold, Heat causing hardening, loss of memory, loss of resilience, cracking and crazing

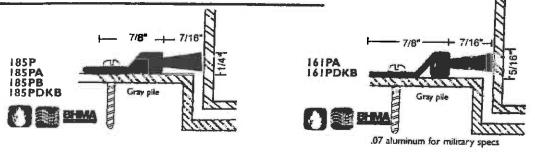
#6 x 3/4" Stainless Steel Sheet Metal Screws furnished Screw holes slotted for adjustment



A - clear
B - gold
DKB - dark bronze
no suffix - mill
Vinyl is gray
(exception: •vinyl is black)



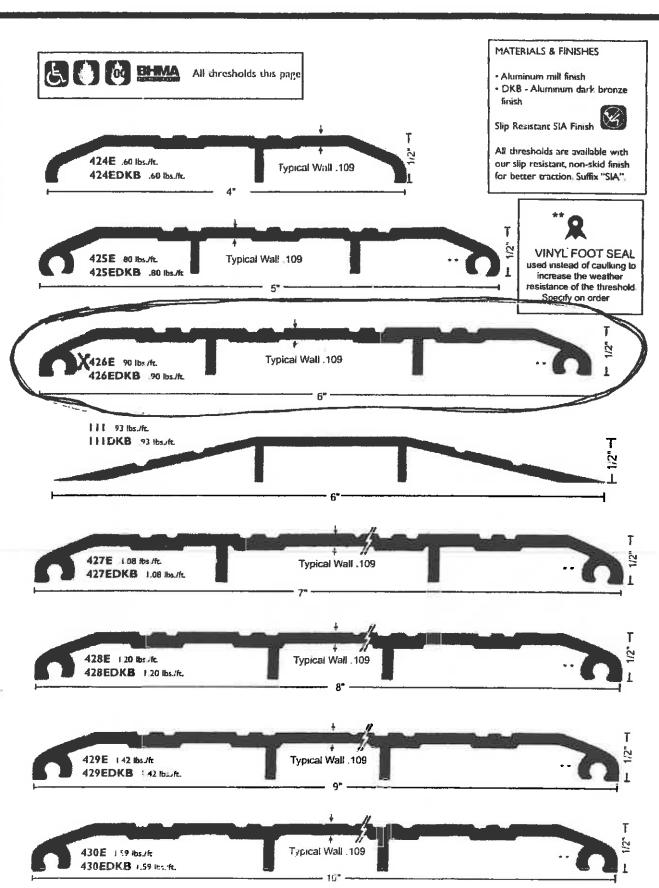
Pile Seals



Phone: 800-647-7874 Fax: 800-255-7874

www.ngp.com

Saddie Thresholds



Specifications

Handing:

All D-Series lever locksets are non-handed.

Door Thickness:

11/4" to 21/4" (41 mm~54 mm) standard including Vandlgard[©] functions.

See accessories (Page 12) for spacers required for 11/4" doors.

Backsets

2.14" (70 mm) standard, 238", 3.44" and 5" (60 mm, 95 mm, 127 mm) optional.

Faceplates

Brass, bronze or stainless steel. 11/8" x 21/4" (29 mm x 57mm) square corner, beveled.

Lock Chassist

Zinc plated for corrosion resistance.

Latch Bolts

Steel, ½" (12mm) throw, deadlocking on keyed and exterior functions. ¾" (19mm) throw anti-friction latch available for pairs of fire doors.

Exposed Trims

Levers: Pressure cast zinc, plated to match finish symbols. Roses: Solid brass.

Strike:

ANSI curved lip strike 1¼" x 4¾" x 1¾16" lip to center standard. Optional strikes, lip lengths and ANSI strike box available. See page 11.

Cylinder & Keys:

6-pin Everest C123 keyway standard with two patented nickel silver keys per lock.

Keying Options:

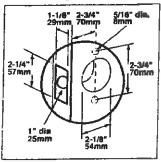
Interchangeable core and Primus[®] high security cylinders. Master keying, grand master keying and construction keying.

Warranty:

Seven-year limited for all functions including Vandlgard®.

Door Preparation

Lever Designs



Certifications

ANSI

Meets or exceeds A156.2 Series 4000, Grade 1 strength and operational requirements. Meets A117.1 Accessibility Code.

Federal

Meets FF-H-106C Series 161.

California State Reference Code

(Formerly Tide 19, California State Fire Marshal Standard)
All levers with returns comply; levers return to within 1/2" of door face.

UL / cUL

All locks listed for A label single doors, 4' x 8'.

Letter F and UL symbol on latch front indicate listing.

Electrified functions are UL19X Listed for single point locking applications.

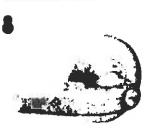
UL437 Listed locking cylinder optional: specify Primus 20-500 Series cylinder.



D SERIES LEVERS

Lever Designs & Finishes

Lever Designs & Finishes



ATHENS Symbol: ATH

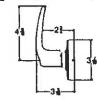
Material: Pressure cast zinc lever; wrought brass rose

Finishes: 605, 606, 612, 613, 619, 625,

626

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606



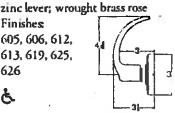
SPARTA

Symbol: SPA (17) Material: Pressure cast

Finishes: 605, 606, 612,

613, 619, 625, 626

Ġ



RHODES

Symbol: RHO (06) Material: Pressure cast zinc lever; wrought brass rose

Finishes 605, 606, 612, 613, 619, 625,

626

Ġ

612

OMEGA

Symbol: OME Material: Pressure cast

zinc lever; wrought brass rose

Finishes

605, 606, 612, 613, 619, 625,

626

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619



Bright Brass



Satin Brass



Satin Bronze



Oil Rubbed Bronze



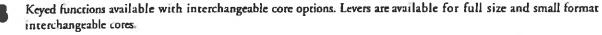
619 Satin Nickel

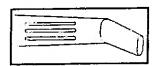


Bright Chromium Plated



Satin Chromium Plated





TACTILE WARNING (KNURLING)

Change symbol designation as

follows: 8AT for Athens

8RO for Rhodes

8SP for Sparta

Only outside lever is knurled unless otherwise specified.

Not available with Omega trim

Finishes

605 Bright Brass

606 Satin Brass

612 Satin Bronze

613 Ril Rubbed Bronze

619 Satin Nickel

625 Bright Chromium Plated

626 Satin Chromium Plated

D SERIES LEVERS

Functions

Non-Keyed Locks

SCHLAGE **ANSI**

ND10S F75



Passage Latch Both levers always unlocked.

ND12D F89



Exit Lock Outside lever always fixed. Inside lever always unlocked.

ND12DEL



Electrically Locked (Fail Safe) Outside lever continuously locked electrically. Unlocked by switch or power failure. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever always free for immediate exit.

ND12DEU



Outside lever continuously locked until unlocked by electric current. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever always free for immediate exit.

Electrically Unlocked (Fail

ND25D



Exit Lock Blank plate outside. Inside lever always unlocked

ND40S F76



Bath/Bedroom Privacy Lock Push-button locking. Can be opened from outside with small screwdriver Turning inside lever or closing door releases button.

ND44S



Hospital Privacy Lock Push-button locking. Unlocked from outside by turning emergency turn-button. Turning inside lever or closing door releases button.

ND170



Single Dummy Trim Dummy trim for one side of door. Used for door pull or as matching inactive trim.

Keyed Locks

SCHLAGE **ANSI**

F82 ND50PD



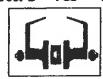
Entrance/Office Lock* Push-button locking, Push-button locks outside lever until unlocked with key or by turning inside lever.

ND53PD F109



Entrance Lock* Turn/push-button locking; pushing and turning button locks outside lever, requiring use of key until button is manually unlocked. Push-button locking; pushing button locks outside lever until unlocked by key or by turning inside lever.

ND60PD F88



Vestibule/Classroom Security Lock* Latch retracted by key from outside when outside lever is locked by key in inside lever. Inside lever is always unlocked.

ND66PD



Store Lock* Key in either lever locks or unlocks both

ND70PD F84



Classroom Lock* Outside lever locked and unlocked by key. Inside lever always unlocked.

ND73PD



Corridor Lock* Outside lever locked by key outside or push-button inside. Push-button released by rotating inside lever or closing door. When outside lever is locked by key, key must be used to unlock it. Inside lever is always unlocked.

OCT 24 2000

* Available functions for small format interchangeable

† Causion: Double cylinder locks on residences and any door in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

Specifications

Handings

Keyed functions are reversible. Non-keyed functions are not handed.

Door Thickness:

1 '4" to 11/4" (35 mm to 48 mm) standard.
2" (51 mm) to 21/2" (64 mm) optional extended inside.

Backset:

2 ½" (60 mm) standard. 2¾" (70 mm), 3¾" (95 mm) and 5" (127 mm) optional.

Front

Steel. 11/6" x 21/4" square corner, beveled, for 21/4" backset standard. Optional 1" square corner, 1" radius corner, and non-UL drive-in / round face. For availability with specific backsets, see page 6.

Lock Chassis:

Steel, zinc dichromate plated for corrosion resistance.

Latch Rolts

Brass, chrome plated, ½" throw, deadlocking on keyed and exterior functions

Exposed Trim:

Wrought brass, bronze or stainless steel. Levers are pressure cast zinc, plated to match finish symbols.

Strike:

Testrike 1%" x 2%" (29 mm x 70 mm) x 1%" (29 mm) lip to center with box standard. Optional strikes, lip lengths and ANSI strike box available. See page 7.

Cylinder & Keys:

Commercial: 6-pin patented Everest C123 keyway standard with two nickel silver keys per lock. Residential: 6-pin C keyway, keyed 5-pin.

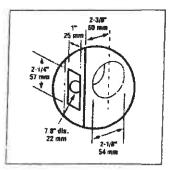
Keying Options:

Interchangeable core and Primus^a high security cylinders. Master keying, grand master keying, and construction keying.

Warranty:

Commercial: three-year limited. Residential: Full mechanical lifetime.

Door Preparation



Certifications

ANSI

Meets or exceeds A156.2 Series 4000, Grade 2 strength and operational requirements.

Federal

Meets FF-H-106C.

California State Reference Code

(Formerly Title 19, California State Fire Marshal Standard)
All levers with returns comply; levers return to within 1/2" of door face.

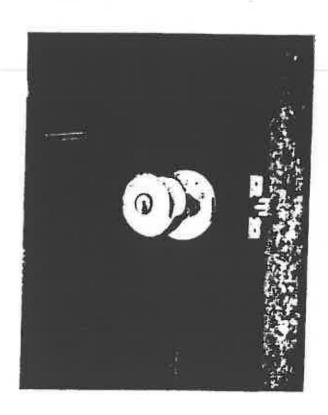
UL / ULC:

All locks listed for A label single doors, 4' x 8'.

Letter F and UL symbol on latch front indicate listing.

UL437 Listed locking cylinder optional: specify

Primus 20-500 Series cylinder.



Designs & Finishes



GEORGIAN

Symbol: GEO Material: Wrought brass Finishes: 605, 606, 609, 610, 625, 626



LEVON

Symbol: LEV
Material: Pressure cast
zinc lever; wrought brass
or bronze rose
Finishes: 605, 612,
613, 626

.

605



ORBIT

Symbol: ORB Material: Wrought brass or bronze Finishes: 605, 606, 609, 610, 611, 612, 613, 616, 625, 626

1-3-16-1

613





PLYMOUTH

Symbol: PLY
Material: Wrought brass,
bronze, or stainless steel
Finishes: 605, 606, 609, 610,
611, 612, 613, 616, 625,
626, 629, 630

605

Note: Levon available as inside trim only on deadlatch functions. Specify complete trim application and door handing when ordering with deadlatch functions.

Finishes

605 Bright Brass

606 Satin Brass

609 Antique Brass

610 Bright Brass, Blackened

611 Bright Bronze

612 Satin Bronze

613 Oil Rubbed Bronze

618 Antique Bronze

625 Bright Chromium Plated

626 Satin Chromium Plated

629 Bright Stainless Steel

630 Satin Stainless Steel

TULIP



Symbol: TUL Material: Wrought brass Finishes: 605, 606, 609, 610, 625, 626



626

Keyed functions available with full size interchangeable core option for Orbit design,

Functions

ANSI A156.2 Series 4000 Grade 2

Nnn-Keyed Functions

SCHLAGE ANSI

Passage Latch

Both knobs always unlocked.

A25D

Exit Lock



Blank plate outside. Inside knob always unlocked. Specify door thickness, 1-1/4" or 11/4".

A30D F77

Patio Lock



Push-button locking. Turning inside knob or closing door releases button, preventing lock-out.

A40S F76

Bath/Bedroom Privacy Lock



Push-button locking. Can be opened from outside with small screwdriver. Turning inside knob or closing door releases button.

A43D F79

Communicating Lock



Turn-button in outer knob locks and unlocks knob and inside thumbrurn.

A170

Single Dummy Trim



Dummy trim for one side of door. Used for door pull or as matching inactive trim.

Keyed Functions

SCHLAGE ANSI

A53PD F109



Entrance Lock

Turn/push-button locking: pushing and turning button locks outside knob requiring use of key until button is manually unlocker Push-button locking: pushing button locks outside knob until unlocked by key or by turning inside knob.

A70PD F84

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Classroom Lock

Outside knob locked and unlocked by key. Inside knob always unlocked.

A79PD



Communicating Lock

Locked or unlocked by key from outside. Blank plate inside.

A80PD F86



Storeroom Lock

Outside knob fixed. Entrance by key only. Inside knob always unlocked.

A85PD F93



Hotel/Motel Lock

Outside knob fixed. Entrance by key only. Push-button in inside knob activates visual occupancy indicator, allowing only emergency masterkey to operate. Rotation of inside spanner-button provides lock-out feature by keeping indicator thrown.

Pemko Manufacturing Company 5535 Distribution Drive Memphis, TN 38141 Phone: (800) 824-3018 Fax: (800) 243-3656

E-mail: pemkosales@pemko.com www.pemko.com

SECTION 08710 DOOR HARDWARE (CONTINUOUS GEARED DOOR HINGES)

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes: Continuous Geared Door Hinges.

Specifier Note: Revise paragraph below to suit project requirements. If a reader of this section could reasonably expect to find a product or component specified in this section, but it is actually specified elsewhere, then the related section number(s) should be listed in the paragraph below. Add section numbers and titles per CSI MasterFormet and specifier's practice. In the absence of related sections, delete paragraph below.

B. Related Sections:

- 1. Division 6 Section(s): Wood Frames.
- 2. Division 8 Section(s): Steel Doors, Wood Doors, Sound Control Doors, Aluminum Frame Storefront Doors.
- 3. Division 10 Section(s): Compartments and Cubicles, Partitions.
- Division 13 Section(s): Special Facilities, Integrated Construction, Special Structures, Special Purpose Rooms.

Specifier Note: Article below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain References Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Conditions of the Contract or Division 1 References Section may establish the edition date of standards. This article does not require compliance with standard. It is a listing of all references used in this section.

1.02 REFERENCES

- A. ASTM International:
 - ASTM E2074 Standard Test Method for Fire Tests of Door Assemblies, Including Positive Pressure Testing of Side-Hinged and Pivoted Swinging Door Assemblies.
- B. American National Standards Institute/Builders Hardware Manufacturers Association (ANSI/BHMA):
 - ANSI/BHMA A156,18 Materials and Finishes.
 - 2. ANSI/BHMA A156.26 Standards for Continuous Hinges.
- C. American National Standards Institute/Steel Door Institute (ANSI/SDI):
 - 1. ANSI A250.8/SDI-100 Recommended Specifications for Standard Steel Doors and Frames.
- D. American National Standards Institute/Window and Door Manufacturers Association (ANSI/WDMA):
 - ANSIWDMA I.S.1-A Architectural Wood Flush Doors.

E. Federal Government:

- U.S. Architectural & Transportation Barriers Compliance Board. Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG), 1992.
- Federal Standard FED-STD-795-1988 (Revised 1989) Uniform Federal Accessibility Standards.
- F. Underwriters Laboratories, Inc. (UL):
 - UL 10B Fire Tests of Door Assemblies.

- 2. UL 10C Fire Tests of D Assemblies
- 3. UL 752 Bullet Resistant Equipment.
- G. International Code Council (ICC):
 - UBC 7-2 Fire Test of Door Assemblies (Positive Pressure).
 - 2. International Building Code (IBC) Code 2000 (Positive Pressure).
 - ICC/ANSI A117.1 Accessible and Usable Buildings and Facilities.
- H. British Standards (BS):
 - 1. BS 476 Fire Tests on Building Materials and Structures.
- . National Fire Protection Association (NFPA):
 - NFPA 1 Fire Prevention Code.

Specifier Note: Article below should be restricted to statements describing design or performance requirements and functional (not dimensional) tolerances of a complete system. Limit descriptions to composite and operational properties required to link components of a system together and to interface with other systems.

1.03 SYSTEM DESCRIPTION

- A. Design Requirements: Provide continuous geared door hinges which have been manufactured, fabricated and installed to meet the following design criteria:
 - Continuous geared configuration, designed to distribute loads uniformly.
 - Identical operation in each leaf, designed to reduce door opening effort.
 - 3. UL labeled for 3 hour fire classification.
 - 4. Durability tested to ANSI/BHMA A156.26 Grade 1, 2, 3.

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities in Conditions of the Contract and Division 1 Submittal Procedures Section.

1.04 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
- Product Data: Submit manufacturer's product data and installation instructions.
- C. Shop Drawings: Provide drawings indicating required component locations, installation interface with adjacent materials, anchorage, fastening and similar information.
- D. Samples: Submit one each of manufacturer's standard selection samples.
- E. Quality Assurance/Control Submittals: Submit the following:
 - Test Reports: Upon request, submit [Fire] [And] [Durability] test reports from recognized testing laboratory.
 - 2. Certificates: Submit manufacturer's certificate that products meet or exceed specified requirements.
- F. Closeout Submittals: Submit the following:
 - 1. Warranty documents specified herein.

Specifier Note: Article below should include statements of prerequisites, standards, limitations and criteria that establish an overall level of quality for products and workmanship for this section. Coordinate article below with Division 1 Quality Assurance Section.

1.05 QUALITY ASSURANCE

A. Installer Qualifications: Utilize an installer having demonstrated experience on projects of similar size and complexity.

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section and authority having jurisdiction. General statements to comply with a particular code are typically addressed in Conditions of the Contract and Division 1 Regulatory Requirements Section. Repetitive statements should be avoided.

B. Regulatory Requirements and Approvals: [Specify applicable requirements of regulatory agencies.].

- 1. [Code agency name].
 - a. [Report or approval number].
- C. Certifications: [Specify requirement for certifications.].
- D. Field Samples: [Specify requirement for field samples.].
- E. Mock-Ups: [Specify requirements for mock-up.].
 - Subject to acceptance by owner, mock-up may be retained as part of finish work.
 - If mock-up is not retained, remove and properly dispose of mock-up.

Specifier Note: Retain paragraph below if preinstallation meeting is required.

F. Preinstallation Meetings: [Specify requirements for meeting.].

Specifier Note: Article below should include specific protection and environmental conditions required during storage. Coordinate article below with Division 1 Product Requirements Section.

1.06 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 1 Product Requirement Section.
- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

Specifier Note: Coordinate article below with Conditions of the Contract and with Division 1 Closeout Submittals (Warranty) Section. Use this article to require special or extended warranty or bond covering the work of this section.

1.07 WARRANTY -

- A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under contract documents.

Specifier Note: Coordinate subparagraph below with manufacturer's warranty requirements.

1. Warranty Period: Warranty for life of door opening, beginning with date of substantial completion.

PART 2 PRODUCTS

Specifier Note: Retain article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal" or "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.01 CONTINUOUS GEARED DOOR HINGES

Specifier Note: Paragraph below is an addition to CSI SectionFormat and a supplement to MANU-SPEC. Retain, edit or delete paragraph below to suit project requirements and specifier practice.

- A. Manufacturer: Pemko Manufacturing Company.
 - Contact: PO Box 3780, 4226 Transport Street, Ventura, CA 93003; Telephone: (800) 283-9988, (805) 642-2600; Fax: (805) 642-4109; E-mail: pemkosaies@pemko.com; website: www.pemko.com.
- B. Proprietary Products/Systems: Continuous Geared Door Hinges, including the following:
 - Continuous Geared PemkoHinges:
 - Material: Extruded tempered aluminum.
 - Material Standard: 6063-T6 alloy.
 - c. Configuration: Three interlocking extrusions in pinless assembly, installed to full height of door frame.
 - d. Finish (ANSI/BHMA A156.18): [Clear anodized] [Dark anodized] [Gold anodized].
 - e. Type: [Full mortise] [Full surface] [Half surface] [Full mortise residential: 1 3/4 inches (45 mm)] [Full

mortise residentia. 3/8 inches (35 mm)] [Special full mortise]. Je throw full mortise].

- f. Length: [79 inches (2007 mm)] [83 inches (2108 mm)] [85 inches (2159 mm)] [95 inches (2413 mm)] [120 inches (3048 mm)].
- g. Hinge Options: [Safety] [Short leaf flush] [Short leaf inset] [Standard] [Safety short leaf inset] [Center pivot].
- h. Electrical Modifications: [Specify electrical modifications.].
- Strength: [Standard Duty: 14 bearings each leaf for 83 inch (2108 mm) hinge, minimum door weight 280 lb (127 kg)] [Heavy Duty: 27 bearings each leaf for 83 inch (2108 mm) hinge, minimum door weight 540 lb (245 kg)].
- j. Mortise Fasteners: TEK, #12 × 3/4 inch, FHUC, Phillips head screws.
- k. Fire Label Certification: Comply with ASTM E2074, NFPA 1, UBC 7-2, BS 476, UL 10B, UL 10C, [90 minutes for wood doors] [3 hours for hollow metal doors].
- Testing Standard: Tested according to ANSI/BHMA A156.26.

Specifier Note: Edit Article below to suit project requirements. If substitutions are permitted, edit text below. Add text to refer to Division 1 Project Requirements (Product Substitutions Procedures) Section.

2.02 PRODUCT SUBSTITUTIONS

A. Substitutions: No substitutions permitted.

PART 3 EXECUTION

Specifier Note: Article below is an addition to the CSI SectionFormat and a supplement to MANU-SPEC. Revise article below to suit project requirements and specifier's practice.

3.01 MANUFACTURER'S INSTRUCTIONS

Comply with the instructions and recommendations of the continuous geared door hinge manufacturer.

Specifier Note: Specify actions to physically determine that conditions are acceptable to receive primary products of the section.

3.02 EXAMINATION

- A. Site Verification of Conditions:
 - Verify that site conditions are acceptable for installation of continuous geared door hinges.
 - Examine doors and frames for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction and other conditions affecting performance.
 - Ensure frame is square and plumb before installation.
 - Examine roughing-in for electrical wiring connections.
 - Do not proceed with installation of continuous geared door hinges until unacceptable conditions are corrected.

Specifier Note: Specify actions required to physically prepare the surface, area or site or to incorporate the primary products of the section.

3.03 PREPARATION

- A. Wood Door Preparation: Comply with ANSI/WDMA I.S.1-A.
- B. Steel Door and Frame Preparation: Drill doors and frames for hardware per manufacturer's installation instructions. Comply with ANSI A250.8/SDI-100.

Specifier Note: Coordinate article below with manufacturer's recommended installation requirements.

3.04 INSTALLATION

- Mounting Location: Comply with the following requirements, unless otherwise indicated:
 - Steel Doors and Frames:
 - Comply with ANSI A250.8/SDI-100.
 - Ensure frames are properly sized, plumb and square.

- c. [Specify standard { ___pecific requirements.].
- 2. Wood Doors:
 - a. Comply with ANSI/WDMA I.S.1-A.
 - b. Ensure doors are properly sized, plumb and square.
 - c. [Specify standard or specific requirements.].
- B. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
- C. Space fasteners and anchors according to manufacturer's product instructions.

Specifier Note: Specify the final actions required to prepare installed equipment or other completed work to properly function or perform.

3.05 ADJUSTING

- A. Perform adjustments required to ensure that continuous geared door hinges function in compliance with manufacturer's performance criteria prior to acceptance by Owner.
 - Adjust door control devices to compensate for final operation of HVAC system and to comply with accessibility requirements.

Specifier Note: Specify the final actions required to clean installed equipment or other completed work to properly function or perform. Coordinate article below with Division 1 Execution Requirements (Cleaning) Section.

3.06 CLEANING

 Remove any protective films and clean components as necessary following manufacturer's recommended procedures.

Specifier Note: Specify provisions for protecting work after installation but prior to acceptance by Owner. Coordinate article below with Division 1 Execution Requirements Section.

3.07 PROTECTION

A. Protect installed work from damage due to subsequent construction activity on the site.

END OF SECTION



ASSA ABLOY

PEMKOHINGE™ CONTINUOUS GEARED HINGES: HALF SURFACE SAFETY HINGES; STANDARD

TS SF EETS

AVAILABLE FINISHES: BL, C, D, PW, SN

WIDTH: 2" (50.8 mm)
(between frame leaf and door leaf edge)

CAP WIDTH: 25/32" (19.8 mm)

HEIGHT: 1-1/2" (38.1 mm) (frame edge side - leaf)

25/32"— (19.8)

TITLE

PREPARED FOR:

PREPARED BY:

COMMENTS:

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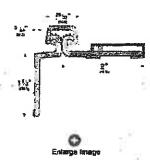
PW (Painted White) - special request only

SN (Satin Nickel Anodized)

C (Clear Anodized)
D (Dark Bronze Anodized)

BL (Black Anodized) - special request only

HS_SF_CUT Rev 2; 10.04.10



_HS_SF

Pemico's standard duty anodized aluminum Half Surface Safety continuous geared hinges are designed mainly for retrofit work in child care and nursing facilities and are applied to the exposed surface of the frame rabbet. Also available in heavy duty models.

- Designed for use with hollow metal frames, where the inset conforms to S.D.I specifications for
- Allows for adjustments in order to properly align the edge of the door to the frame.
- BL (Black Anodized) and PW (Painted White) are special finishes available upon request.
- Fasteners Frame Portion All fasteners are #12-24 x 7/15" FHUC, Type C, threadforming.
- Standard model: 16 fasteners required for each leaf,
- Wood screws available on request (specify on order).
- Fasteners Door Portion a. Thru-bolt 1/4-20 x 1-5/8". Standard Duty Hinges 4 required. b. Shoulder Bolt - 1/4-20 x 1" PCH. - Standard Duty Hinges - 4 required. - c. Pan Head Self Drising #12 x 3/4". - Standard Duty Hinges - 6 required.
- Standard duty hinge. 6" between bearing centers.
- Standard duty hinges comform to Grade 3-150 and Grade 3-300 cycle requirements per BHMA standard ANSI/BHMA A156.26-2006.
- Aluminum continuous hinge for use on swinging type fire doors of the hollow metal, tin-clad, sheet metal and steel covered composite type rated up to 3 hours, wood covered composite type ceted up to and including 1-1/2 hours. Also wood core rated up to and including 20 minutes without hose stream.
- PemkoHinge products are guaranteed for the life of the opening against defects in material or workmanship with the exception of AL, RS, standard duty and Grade 3 hinges, which carry a 10 year
- Weight bearing (per BHMA standard ANSI/BHMA A156.26-2006) for standard models: 83" and 85" = 14 bearings, door weight = 280 lbs.; 95" = 16 bearings, door weight = 320 lbs.; 120" = 20 bearings, door weight = 400 lbs.
- Width: 2" (50.8 mm) (between frame leaf and door leaf edge).
- Cap Width: 25/32" (19.8 mm).
- Height: 1-1/2" (38.1 mm) (frame edge side leaf).

IMA		Retinus Explained	View Finishes
CHSSF		C - Clear Anodized Aluminum	7.00
DHSSF		D - Dark Bronze Anodized Aluminum	
GHSSF		G - Gold Anodized Aluminum, (Special Order Finish)	
BLHSSF		BL - Stack Anodized Aluminum, (Special Order Finish)	
PWHSSF		PW - Peinted White Aluminum, (Special Order Finish)	
SNHSSF	19.15	SN - Satin Nickel Anodized Aluminum, (Special Order Finish)	

FINAL ABATEMENT REPORTS

Oklahoma Department of Labor

E	Initial Notification
	Revised Notification



Emergency Notification



Mark Costello COMMISSIONER

LILL OF SITH JAMENTAL QUALITY **ASBESTOS PROJECT** CHECKLIST NAME **ADDRESS** CITY PHONE Job Site: Former Waiters Armory 608 West Missouri Walters Oklahoma N/A Contractor: ENVIRONMENTAL ACTION PO BOX 1029 JENKS OK 918-298-4080 Site Owner: OMES CAP 2401 N. Lincoln Blvd., Suite 106, Oklahoma City, OK 73105 405-522-6762 Gen. Contractor N/A Project Designer: ENVIRONMENTAL ACTION PO BOX 1029 JENKS OK 918-298-4080 Air Monitoring Firm: Earth Tech 3336 E 32nd Street Tulsa, OK 918 712-9163 Air Monitoring Firm: N/A Landfilt: WASTE CONNECTIONS 7600 SW 15TH OKC OK 405-745-3002 Hauler: Lowder Transportation PO Box 307 405 275-8538 Shawnee, OK MOBILIZATION DATE: 1/6/2014 SCHEDULED DATE OF ASBESTOS REMOVAL: 1/9/2014 PROJECT COMPLETION DATE: 1/27/2014 RENOVATION: X DEMOLITION: Type and percentage asbestos (attach lab reports): Submitted with approved project design AMOUNT OF ASBESTOS TO BE ABATED: 255 LF of TSI including 25 fittings ABATEMENT TECHNIQUES: Detailed in Marshall Environmental Management Project Design SUBMITTALS NECESSARY BEFORE ABATEMENT MAY BEGIN. CHECK OF ONLY THOSE ATTACHED TO THIS CHECKLIST OR WHICH ARE ON FILE AT THE OKLAHOMA STATE DEPARTMENT OF LABOR. Variances N/ANESHAPS Notification (Copy) Project specifications Bonds and/or Insurance Certificates Plans for Decontamination Facilities Respirator Program Employee Physicals Permission from owner for all rented vehicles/trailers used to haul asbestos-containing material. # of Mini-containments **FEES** TBD # of Glovebags * \$ 600.00 per containment 1 # of Containments \$ 200.00 per project not part of a definite containment. 1 # of Phases \$ 200.00 per project with multiple glovebags or mini-containment, plus \$ 5.00 per such glovebag or mini-containment Comments:

H:\ACCESS\508\AsbestosProjectChecklist.wpd

218585 CD / #c | c/o LY

Date

12/17/2013

Contractor/Responsible Party Signature



Oklahoma City 3017 North Stiles, Suite 100 Oklahoma City, OK 73105 405-521-6464 888-269-5353 Fax 405-521-6025

Tulsa440 South Houston, Suite 300 Tulsa, OK 74127 918-581-2400 Fax 918-581-2431

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Oklahoma Department of Labor Mark Costello, Commissioner www.ok.gov/odol

Oklahoma City 3017 N Stiles, Suite 100 Oklahoma City, OK. 73105 405-521-6100 / 888-269-5353 Fax 405-521-6025

Tulsa 440 South Houston, Suite 300 Tulsa, OK. 74127 918-581-2400 Fax 918-581-2431

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OPENING CONFERENCE		ACCREDITATION OF CONTRACTORS & WORKE	RS. cont.
Personnel present and Interviewed: Name:		Workers:	Jan Olay
		Name: Anna Mart La Maria	
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ODOL inspector accompanied by	other State or Federal employee(s)	Issue date:	Exp. Date: 2/3/2/11/
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ODOL Asbestos November 2011

Inspector

White Copy: QDOL

Contractor or Representative

Yellow Copy: Contractor/Owner

April 11, 2014

Oklahoma Department of Labor 3017 N. Stiles, Suite 100 Oklahoma City, OK 73105

RE:

12-6980 Walter Armory

The following documents are enclosed for your records:

- Air monitoring results
- Waste disposal manifest

Please call if you need any additional information in order to complete your file.

Sincerely,

ENVIRONMENTAL ACTION, INC.

Darwin Chesnut

Oklahoma City Operations Manager

CON

ENCLOSURES



WC1000 (Rev. 6/12)

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV. If waste is NOT asbestos waste, complete only Sections I, II and III.

No.0059306

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a. Generator Name:	National Guar	d armory	
	Guy St.		b. Generating Location:
C. Address	Walters, OK 7		d. Address
e. Phone No.: If owner of the general	ting facility differs from the g	generator provide:	f. Phone No.:
			h. Purchase Order No.:
g, 0			TYPE
i. WC WASTE CODE	€		DM - METAL DRUM DP - PLASTIC DRUM
j. Description of Wast			1101 717 271 271 271 271
Rep 1	Asbestos, 9, MAS	212,PGIII	or WRAP T - TRUCK O - OTHER
GENERATOR'S CERTI	FICATION: I hereby certify that the	above named material is not a	hazardous waste as defined by 40 CFR Part 261 or any applicable on for transportation according to applicable regulations; AND, if the
waste is a treatment re	esidue of a previously restricted	I hazardous waste subject to the	ne Land Disposal Restrictions. I certify and warrant that the waste
		10 2	M³ - CUBIC METERS
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Section II		NSPORTER (General	ior complete a-d Transporter II complete h-n)
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Driver Signature		Shipment Date	Driver Signature Shipment Date
Section III	DESTI	NATION (Generator con	mpletes a-d. destination site completes e-f
Site Name: WA	STE CONNECTION	VS	c. Phone No.: (405) 745-3091
	Oklahoma City Lan		d. Fax No.: (405) 745-3611
	7600 S.W. 15th • (
	000 0.11. 10	okianoma ony, o	K 70120
Discrepancy Indication Discrept continues that the property continues that the property is a second continue to the property of the p		see been secented and to	the best of my knowledge the foregoing is true and accurate.
Thereby certify that t	The above harned material	las been accepted and to	The best of thy knowledge the foregoing is true and accurate.
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Name of Authorized Ag	ent Sig	nature	Receipt Date /
Section IV	ASE	BESTOS (Generator con	mpletes a-d, f, g, Shipper* completes e.
. Shipper's* Name:	Environmental	Action, Inc.	b. Shipper's* Phone No 2 <u>298-4080</u>
. Shipper's* Address:	P.O.30x 10	29, Jneks, OK	74037
. Shipper's* Special H	landling Instructions and ad-	ditional information:	
			orately described above by proper shipping name and are classified, packaged, marked, and opticable international and national governmental regulations.
. Shipper's* Name & T	Paul Tivic	ss, Super.	b. Shipper's* Phone No.:
Name and Address	ODEG, 707 N.J.	obinson, OKKC,	
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*Shipper refers to the company which owns, leases, operates, controls, or supervises the facility being demollshed or renovated, or the demolition or renovation operation, or both.

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6525 N. Merician, Suite 400 Oklahoma City, OK 73116 Enercon Services, Inc.

Phone: 405-722-7693

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			Collection	Information	BLANK	BIANK		SAM HENNESSEY (400865)	PIPING INSULATION REMOVAL	GERARDO SALGADO (279553)	PIPING INSULATION REMOVAL	NSIDE AREA	PIPING INSULATION REMOVAL	DECON EXIT	EXTERIOR	NEG AIR EXHAUST	EXTERIOR	LOAD OUT	EXTERIOR	-	De2		
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			Time 1	#Ö-űő			•	1:30 PM	4:45 PM	1:30 PM	4:45 PM	1:35 PM	4:50 PM	1:37 PM	4:52 PM	1:40 PM	4:55 PM	1:45 PM	5:00 PM	2	were collect	is and regula	
		ers Armory	Date	Sampled	1/6/14	1/6/14		1/6/14	,	1/6/14	'	1/6/14		1/6/14	١	1/6/14	-	1/6/14	•		I nereby certify that the above samples were collected and analyzed	in compliance with applicable standards and regulations.	
7597	n.com	Project: Former Walters Armony	Sample	Number			2		3		4		2		e e		7		00		ny that me a	e with applic	,
Eav. 405.727.7594	www.enercon.com	Project	Pump	Number				199		662		648		538		3648		HV1012			i nereby cert	in compliance	

7/1/2010 REV 1

0.008

0.001

0.001 0.002

> Vincent Colbert
> Former Walters Amory
> Environmental Action Inc.
> ASBTS1287 AM Technician: Vincent Colbert
> Location: Former Walters Amo
> Contractor: Environmental Action
> Project Number: ASBTS1287

Rev 06_30 2010

TO SHAT BEAUTING THE SECTION

-널

E get Ϋ́ ×

Pg. Fibers Per CC Ä

Ttl. Time Volume (Min.) (Liters)

Field Count 100 9

PF = Fiber Count 0.0

0.00785 Fiber Density 0.000

Field of View =

Ϋ́ ¥ 0.003 0.003 0.003 0.003 0.003

0.001 0.001 0.001

0.003 0.003 0.003

<u>B</u> BDL

1200.0 0.0

> 8 5

3.0 2.0 50

10.00 10.00 10.00

10.00

10.00

10.00 10.00 10.00 10.00 10.00

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0.000 3.822

0 120 120 120 22

8

0.00

6525 N. Meridian, Suite 400 Oklahoma City, OK 73116 Phone: 405-722-7693 Fax: 405-722-7694

www.enercon.com

Enercon Services, Inc.

AREA#1
CLEARANCE
AREA#2
CLEARANCE
AREA#3
CLEARANCE
AREA#4
CLEARANCE
AREA#4
CLEARANCE
AREA#4 CLEARANCE Collection Information BLANK BLANK 9-0f Тіте 2 7:00 AM 9:00 AM 7:05 AM 9:05 AM 7:10 AM 7:15 AM 9:15 AM 7:20 AM 9:20 AM 0-0f Time 1 Date Sampled Project: Former Walters Armory
Pump Sample Date
Number Number Sampled 17/14 177/14 177/14 117/14 177/14 177/14 Sample 5 4 10 7 HV1012 HV376 HV377 HV1 ₹

I hereby certify that the above samples were collected and analyzed in compliance with applicable standards and regulations.

ħ

7/1/2010 REV 1

ANALYST PARTICIPATING IN LAB AIHA-151368
NC = Not Counted. Reasons: 1. Overload: 2. Damaged Filter; 3. Pump Failure; 4. Missing Filter
Rotometer Number: 507
Calibration Date: 11/14/13

0.002

0.003 0.003

BD BDL

8.917 2.548

1200.0

120

BDL

6.369 2.548

> 100 9 100

> > 0.7

10.00

10.00

10.00

10:00 10:00

1200.0 1200.0 1200.0 0.001

A STATE OF THE PARTY OF THE PAR AM Technician:

Vincent Colbert
Former Walters Armary
Environmental Action Inc.
ASBTS1287

Location: Contractor: Project Number:



Oklahoma Department of Labor Mark Costello, Commissioner www.labor.ok.gov

Oklahoma City 3017 North Stiles, Suite 100 Oklahoma City, OK. 73105 405-521-6464 888-269-5353 Fax 405-521-6025

Abatement Preparation Inspection Form

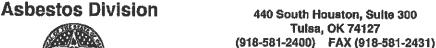
	betement Project: <u>Former Can Hers F</u> roject No.: 12-6930	Prmory	Date: / - C	06 - 14 Time: 13 : 05			
	roject No.: 13-69-60 roject Address/Location: 668 63est 1	Mleened	Phase: <u>I - Glovebac gint</u> City: Walters Zip:				
	17/12	111330011	Contact Person: Paul Inter				
	ontractor: EFIT		_	Phone No.: (405 \642-3/5/			
	roject Phone No.:		Owner's Rep.:	Frione No.: (703)677 3737			
	roject Owner: OMES CAP			readed before asked to account header. If the each definition are			
D	 Acceptable. Denied; must be correct and re-inspected before asbestos rer Hot applicable to this project. 	noval (s begun.	the "X" type, after correction, a	rrected before asbestos removal begins, it the only deficiencies are asbestos subtement may begin. fore the deficiencies are correct shall constitute a <u>Serious Violation</u> . **			
43	A D N/A X	(Ot) Extenden cords in occ	A D N/A X	A D N/A X			
1)	Work site barriers and warning signs	(21) Extension cords in acceleration		(39) Make-up air sources provide adequate circulation and			
2)	Tollet facilities provided 🔀 🔲 🔲	(22) Equipment properly gro	ounded	alr cleaning			
3)	Worker licenses · · · · · · ⊠ □ □ □	(23) Tension relief on electri	lc	(40) Access controlled			
4)	Emergency telephone #'s 🔀 🔲 🔲	cords	 	(41) Scaffolding over 10' high has 42" siderails and 4" toeboards			
5)	OSHA forms, poster (min. wage, workers comp,	opaque, with triple flap		(42) Scaffolding from 4' to10' high,			
	equal opportunity)	(25) De-con trailers properly		but less than 42" wide, has side rails · · · · · · · · · · · · · · · · · · ·			
6)	Air mon., results from prior phases, if applicable	grounded		(43) Scalfolding with people working			
7)	Respirator program and	and ODOL inspectors'	street	under has mesh or solld barrier on platform			
	projecti design on-site 🖾 🗀 🗀 🗀	clothes		(44) Scatfolding floorboards in			
8)	Respirator, air system and equipment manuals	(27) Shower יילווי האot water stable nonskig איי הא	supply, ∛ights⊠ □ □ □	good condition and secured L			
9)	Compressor does not	(28) Shower drains, filter, pr	oper	(45) Aerial lifts have full-body harness with shock lanyards			
ia)	discharge oil L L L L L CO monitor, high temp and low	water disposal		(46) Ladders are non-conducting			
10)	pressure alarm tested on-site .	(29) Soap from dispenser, a towels provided		and stable			
11)	Cascade system secure and certificate of air quality	(30) Hearing protection prov	ided if	(48) HEPA vacuum is clean with			
	Automatic back-up air of proper	required	🗷 🖸 🗆 🗆	filters properly installed			
	quantity in full containers	(31) Hard hats provided, if required		(49) Temporary lighting is adequate and and properly wired and grounded			
•	free of olf residue	(32) Appropriate footwear/se	afety D.C.C.C.	(50) 10 # ABC fire extinguishers			
14}	In-line pressure gauge at manifold	shoes provided, if requ (33) Electrical system in	ired	Inspected			
(6)	NIOSH approved respirators,	abatement area locked		Illuminated with emergency lighting and			
(R)	clean, parts in working order. 2	tagged out		battery back-up			
. 0,	area	(34) Ventilation serving or pa through the abatement	area	and chemicals provided			
17)	Temporary wiring installed by licensed electrician · · · · · · □ □ ☑ □	deactivated · · · · · ·	_	(53) Load-out sealed unless needed for make-up air			
	LIC#:	(35) Critical barriers in place		(54) Disposal bags and/or barrels			
18)	Temporary panel boards properly grounded ☒ ☐ ☐ ☐	(36) Neg. air quantity and pr confirmed on-site with a		provided and properly labeled . X			
19)	Ground fault interruption	manometer		lined			
	provided from outside work area	(37) Neg. air machine(s) hav filters, clean pre-filters		(56) Disposal vehicle properly tagged and marked			
20)	Live electrical requirement	(38) Prep, work secure with	~	(57) Area monitoring locations			
_	met	negalive air on		identified			
2	9 # of GLOVEBAGS	# OF FULL C	ONTAINMENTS	# OF MINI CONTAINMENTS			
Re	ecommendation & Remarks:						
	Pro	p Accepted	for Glove bo	x-cinc			
_				Ø \			
U:	rders:		11				
,	11/1/1/ -11/1		11.1.				
(_ / but Doubly		- ywww	storie or Ponyoparitativale Cienature			
	Inspector's Signature	•	Contrac	ctor's or Representative's Signature			

Oklahoma Department of Labor

Mark Costello, Commissioner



3017 North Stiles, Suite 100 Oklahoma City, OK 73105 (405-521-6464) FAX (405-521-6025)



Visual/Final/Inspection Form 12-69020 **DOL Project #:** Former Walters Armory Facility: Month Contractor #: County #: Address/Location: Address City: Owner/Occupant: Contractor: **Contact Name:** Contractor's Rep.: Facility Phone #: Contractor's Phone #: 2. Areas requiring further cleaning: Done 3. Air Counts (PCMTEM) On-Site?: Yes Clearances all acceptable. Remove all poly and tope and dispose of as ACM. 5. Will a FINAL Inspection be required?: This is the fina 6. Notes: sual and Final Accepted project is complete 7. Note any violations cited: 380:50-8. Contractor's Comments:

Inspector's Signature

Contractor's Signature

SUPERVISOR: PAUL TINESS	DATE: 1/2/14		Page , of !
PROJECT NAME: WAHERS ARMORY	, , ,	PROJECT NO.	5424
FIELD ACTIVITY SUBJECT: Parp	lock for 1910-146	P. Pa	
DESCRIPTION OF DAILY ACTIVITIES AN	ND EVENTS:		
9:00 CREW OF 10 ONSite	Pid 506 WAIK	WITH MARW	in chesant
10:00 Started valear			
to Remana Certining Tile			
Miss Stated 3 more	MEN TO INSTALL	Glove DAG	ON PiPa
11:30 lunch		0	
12:30 FII BACK	Continue to Ins	1911 Gloriba	3 5 5
+ CRITICAL BARRI	TRES over win	coloms + 1	SORES
2:00 all Pipe ha	Speen UNCOUCH	ed	
2:36 ('Alltel Lou	rlee TRANSpenta	tion FOR	wast
dumpsted?		54	
3:30 TAIRENTO	overhead door	5 about	
Schedule will Be by	2 1/3/14		
4:30 CREW to chan	up Shot down ly	ights	
5:00 lask up lett	Ex the Day	·	
WEITORS ON SITES	CITANICEC PRODUCTION	III AND ODE CITY	CIA POLONICI AND
VISITORS ON SITE:	CHANGES FROM PLAN OTHER SPECIAL ORDE		-
NORE	NONE		
	. Nois		
WEATHER CONDITIONS:	IMPORTANT TELEPHO	NE CALLS:	
Cool / windy 400	Overhead Noor	5	
Carly Mills of 10			
IH PERSONNEL ON SITE:	* • •	•	
SIGNATURE: Jul Jun	DATE	1/2/14	
	111		

SUPERVISOR: PAUL TNESS	DATE:	1/6/14	Page / of (
PROJECT NAME: WALLERS ARMORY		es Reman PROJE	
FIELD ACTIVITY SUBJECT:	,		
DESCRIPTION OF DAILY ACTIVITIES AN	ND EVENT	S:	
7:00 CREW 5:20	- 9 was	KALS / SUPERINA	M OKELL.
CREW to First Dec	ON + 1	endout 5 men	'
4 walkers to IN			
9:00 sound two n	sen to	prep waste	Trailes
9:30 Vinceint College or	vsila wi	LA ENCALON	
10:00 ('Rew L. INST.			es singe
11:30 lunch 12:30	911 BACS	Κ	
12:40 CLARK Boswell	1 pusito	FOR peop INS	Ø
1:00 all OF to stat	et Remed	ral & WORKONE	to soitiup
to Remove 12:10 . 29	Glow be	1/5	
200 All Bags have	-Deen?	Romand exem	to Pauble bay
9.15 2 men to	ead out		
4:35 loadout 0	omp bo	D ENCON to Y	all air Pumps
Crow to Shower and			
5:10 leafer for 42	e Dag		
VISITORS ON SITE:	CHANGE	S EDOM DI ANG AND	SPECIFICATIONS, AND
	OTHER S	PECIAL ORDERS ANI	D IMPORTANT DECISIONS:
VINCENT Colber- Enercon	=	Now-	
	n 8		
WEATHER CONDITIONS:	IMPORTA	ANT TELEPHONE CAL	LS: -
Walm / winly 50°		None	
IH PERSONNEL ON SITE:			
SIGNATURE:		DATE: //	6/14
	r es		

SUPERVISOR: PAUL TAICES	DATE: 1/7/14		Page , of/
PROJECT NAME: WAIters PRINCEY		PROJECT NO.	5424
FIELD ACTIVITY SUBJECT: Flore fole	+ amo	-	
DESCRIPTION OF DAILY ACTIVITIES AN	ID EVENTS:		
7:00 9 workers /50pc	evisa ensite	Swalkers	
to storet Flore tile +			
Compat 4 new to stonet			
9:50 9:11 CARPED +	Tile Completed	caem le	9
start Mastic	3	6	
10:30 Lander TR	ANSARKAtion ON	sides with	4
30 get 1 vanpster			
11:30 Juneh 12:	30 911 BACK 1	tour Rails	hove be one
Remaind executo 76			
of officer 1:00 (001 parsito all 900	d Trandow	1)
2:00 PRE Clean	OF OFFicer +	ON Flood	5
DRILL ROOM Finished			
Plymond above or	FFICE &	-	• •
2:30 mustic in	2 Rms 2 coats	5 Inope	Need
4:00 3 coat Bu	CK ZRMS OK		
4:30 Cleaning	3hus down loc	KUP	
5:00 left for the	DAG	,	
VISITORS ON SITE:	CHANGES FROM PLAN OTHER SPECIAL ORDE	IS AND SPECIFI ORS AND IMPOR	CATIONS, AND
North	pone		CITATI DECIDIONO
	5 6		
WEATHER CONDITIONS:	IMPORTANT TELEPHO	NE CALLS:	
	DARWIN CA	restact -	- EUL
		•	75
IH PERSONNEL ON SITE:			
SIGNATURE:	DATI	: 1/7/1	14
	=======================================		<u> </u>

SUPERVISOR: PAUL INESS	DATE: //8/1	4	Page / of /
PROJECT NAME: WIFLERS ARM	10RU	PROJECT NO.	5424
FIELD ACTIVITY SUBJECT: Flore T	h + Dono		
DESCRIPTION OF DAILY ACTIVITIES A	ND EVENTS:		
7:00 Fewedls /	SUPERVISIO	pusite 4 men	4
Finish mastic Rm	11 5 MEN to	Continue Rea	77
DRill Ron			
9:00 called how	rlee TENS	about Disease	1
Supp 2:00 1,	19	5.000 1 1000 pg	
11:00 MASTIC Q	11 Clear mo	usal damen L	Demo
11:30 Juney 12:	30 All BACK		
911 9 men working	A Dean		
9:30 911 3he	Land & Ali	Tarclas.	*
solaren + out care	1 La ward W	na) are april	- L
4:00 911 2xle	Acima e dans 2	Remarks 2 Vet	114 1 0 1 1 d c
4: 512 Clean up	Ol Camo	TRIVING AFT	WATT 510015
5:00 shut day	1) FAR Dio W	364	
	7,00	3/19	·
			U.
VISITORS ON SITE:	CHANGES FROM	PLANS AND SPECIFI	CATIONS, AND
Lone	OTHER SPECIAL	ORDERS AND IMPOR	TANT DECISIONS:
	None	19	35
	1	2	•
WEATHER CONDITIONS:		LEPHONE CALLS:	
Cold/winly 480	Lousder	TRANSPORTATION	,
H PERSONNEL ON SITE:			
IGNATURE: Ochon		DATE: //9/14/	,
	,	1/47	

SUPERVISOR: HUI THESS	DATE: 1/9/14	Page / o	f /
PROJECT NAME: WALLERS ARMORY		PROJECT NO. 5424	
FIELD ACTIVITY SUBJECT: Demo 4	PAPO WORK FOR	lend Diet Principal	
DESCRIPTION OF DAILY ACTIVITIES AN	ND EVENTS:	"	,
9 workers I supervise			
Demo last 2x4 wa	115		
10:30 911 Demo DOA	re crew to Fr	and elena Flood	
11:00 Called Thon	egs with unit	d Readals	
about & Scissor let	79 2674 will A	dive monday 8:32	<u></u>
11:30 Lunch 12:50	all BACK CREW	OF 3 to Install	
4 mill Fely on wal	15 in Pain Ron		
Gmill REF Poly on	FlooRS	7	
1:20 Querhead Doc	ias le Remova m	indows in Rm 23,29	135
3:00 wall Paly up on	3 sides PROPE	loth Yeway	
Window must Come	out- FRUM INSI	to Fram set	
Preset in side Ba	cick yu to yz in	<u>, , , , , , , , , , , , , , , , , , , </u>	
4:00 2 mon to	INSTALL Polg Fli	PPS + SMAIL	-
Change Run For 1	ead fruit Removal		
5:00 3 hut down	FOR YHL WEEK		
57	,		
VISITORS ON SITE:		IS AND SPECIFICATIONS, AND IMPORTANT DECIS	
Overhead Pases	Nove .	ERS AND IMPORTANT DECIS	101/2:
	10		
WEATHER CONDITIONS:	IMPORTANT TELEPHO	NE CALLS.	
when 50°	united fexts		
Wind's	Daeum Chas	vot-EAI	
IH PERSONNEL ON SITE:			
SIGNATURE:	DAT	E: 1/9/14	
	6 7	f	

SUPERVISOR: HOU! THESE	DATE: 1/13/14		Page of					
PROJECT NAME: WALTER ARMOL	.u	PROJECT NO.	5424					
FIELD ACTIVITY SUBJECT: Jegd Pa	int wex Scraid							
DESCRIPTION OF DAILY ACTIVITIES A	ND EVENTS:	S						
2:00 Clew 0 F 9 W	arks I suppopulary a	usite le me	N					
to FINISH PRED WOCK	+ THISTALL NEGA	r sa						
3 Men to start R			WE FRAMS					
8: 20 united Ren	tal overte with	2 Scisson	liE+3					
	9:00 Suited 6 Men up FOR Wet SCRAP Print							
11:36 which 12:36		•						
2:30 Wet SCRAP A	int Going well							
lead fluint Door FA	AMS HARA 10ts of	= Parit	1					
(3:30 Some tile ar	ound Front DOOR	Caniner .	<u>Ca</u>					
4:30 CARW 40 Clas	WOD + wet wire	POOR FRAM	5					
\$ 5:00 /eat	- FOR the DAY							
	·							
		90						
VISITORS ON SITE:	CHANGES FROM PLAN OTHER SPECIAL ORDE							
United Rental	•	AO IIVII CIPIA EAS	TANT DECISIONS					
UNITED KENTA	None							
WEATHER CONDITIONS:	IMPORTANT TELEPHO	NE CALLS:						
		AND CALLED.	2					
worm 45° windy								
IH PERSONNEL ON SITE:								
SIGNATURE:	DAT	E:						
	· · · · · · · · · · · · · · · · · · ·							

SUPERVISOR: PAUL TUESS	DATE: 9/14/10	/	Page / of /
PROJECT NAME: WALTERS BAMON	eu	PROJECT NO.	5424
FIELD ACTIVITY SUBJECT: /ead Au	it wet Sceno		
DESCRIPTION OF DAILY ACTIVITIES AT	ND EVENTS:		
7:00 9 workers 15	Upervisor on	ito lo men to	Continue
wet Scrap Prill Rm	Siesen Contra	ine 2 Door Fr	ener s
lead Paint Renova			
9:30 Crew getting	close to Pa	K Yz han Pa-	<i>'</i>
10:30 CANED DAR			
5-5001		0	
11:30 lunch 12:3	O all BACK	Share work	
2:15 1 DOOR FI			W RMIT
1 mine Coat			
3:30 TALK TO L	DARWIN SAID	me would	ike
Sex Beams	Orill Rm +	Paint would	Be berg
1/15			
5:00 smt dan	FOR HE DA	-IA	
		V	
*			
VISITORS ON SITE:		PLANS AND SPECIFIC	
None	OTHER SPECIAL	ORDERS AND IMPOR	TANT DECISIONS
	Now		
WEATHER CONDITIONS			
WEATHER CONDITIONS:	IMPORTANT TEL		~ /A
WHON 33	DARWIN	Chevrell - 8	211-L
IH PERSONNEL ON SITE:		C#	
SIGNATURE:		DATE:	
	<u> </u>	INCALLY.	

SUPERVISOR: PAVI THESS	DATE: 1/15/14		Page / of /
PROJECT NAME: WALLED & Acmo	A 12	PROJECT NO.	5424
FIELD ACTIVITY SUBJECT: pad	A WEX SCORD		
DESCRIPTION OF DAIL Y ACTIVITIES A	ND EVENTS:		
7:00 guerkers 1	SUMPRIFIC ONSITE	· 6 wales	15
to suit of For lead	SCLUP 2 MOON	to Fais b	
done FRAMA paid Ro	eneval Rm 15 +2	5 .17	
15 NEEDS C/earral	Soop + wares		
10:00 DAOR FRAM	em 17 needs cla		
11:00 NOORS + FRA	m Am 15 17 Ca	mpletel	
moved care de	DAR FRAM 26	•	
11:30 lopech 17			
CREW ON WET	SCRUP has ma	re past to	a//
11/5 overhead		se High !	344
windows in Bail	Rm		
3:30 Lowell	Than to pick up	Asbasles.	
wast Tables			
Sieo Sket al	own for the DA	j	
	· · · · · · · · · · · · · · · · · · ·		
VISITORS ON SITE:	CHANGES FROM PLAN	IS AND SPECIFIC	CATIONS, AND
1 0 Thomas Endi	OTHER SPECIAL ORDI	ERS AND IMPOR	TANT DECISIONS:
Lorder TRANS, DONTER	None		
WID A THUR CONTRICTONIS	TAMODE AND TO LOUIS	DE CALLS.	
WEATHER CONDITIONS:	IMPORTANT TELEPHO	NE CALLS:	
warm 60°	MOP		
IH PERSONNEL ON SITE:			
SIGNATURE: Yashin	DAT	E: 1/15/	<u>l</u>
(ay vo-		100//	<u> </u>

SUPERVISOR: PAUL INFS 5	DATE: 1/16/14		Page / of /
PROJECT NAME: WALTERS ARMON	L U	PROJECT NO.	5414
FIELD ACTIVITY SUBJECT: wet Sa			
DESCRIPTION OF DAILY ACTIVITIES AN	D EVENTS:		
7:00 9 workers 150	pervisex onsite	Comen	
to \$ work con we	+ SCRAD DRILLA	em Beans	
8:30 Deenin Chesa	put onsite with	ENCAPSUL	At / Paint
Job Looks Good			
9:30 started	mon lift to S	PRAY ENC.	Dist
9:30 3tarted 1	eam cleaned	Moral 3	MERN
\$ Install Poly or	alls + Floors	Rms 23	2425
11:30 Junch 12:3	30 All BACK	Same wo	RK MREAS
2:00 wet SCRAP	Congaleted ARil	I Rus Start	tool
other manlest on	But Sorriver		
3:300 all windows		out ARILIRA	<u>۸</u>
4:30 Cleanup los			
5:00 shatdown			
VISITORS ON SITE:	CHANGES FROM PLAN		•
Officia Channel - EAI	OTHER SPECIAL ORDI	ADAIMI MAR GAE	CIANT DECISIONS:
	None		
WEATHER CONDITIONS:	IMPORTANT TELEPHO	ONE CALLS:	
warm 560			
	PA AUGUSTA		
IH PERSONNEL ON SITE:	T	- 11-1-T	
SIGNATURE: Carlo	DAT	E: 1/16/14	1

SUPERVISOR: PAUL TNESS	DATE: //20/14		Page / of /
PROJECT NAME: WELLERS ARM	ORIZ	PROJECT NO.	
FIELD ACTIVITY SUBJECT:	7:		
DESCRIPTION OF DAILY ACTIVITIES AN	D EVENTS:	*	
7:00 9 WORKERS 1 Se	perusen ausita	CREW OF	
4 to Fixish Painting	Beams DRILL RM	started	/
2 AIRLES SPRAYERS	5 workers to Sta	et henvi	16
911 Floors in OFFCUS			•
10:30 all OFFICE			al
CRYW to VAC ha			
1/130 worch 12;	30 all BACK		
1:00 moved 2 m		to stort	
mopping Floors			
2:30 all Paintla	a Completeral c	Rew Le CI	leanuD
clean out siels	55		7
4,00 CROW do s	fort Tear Clown	Dely wal	Us of
Flaces		-, ,	
Sion Lack S	but down For th	e PAIN	
		9	
+1			
			4
VISITORS ON SITE:	CHANGES FROM PLAN		
None	OTHER SPECIAL ORDE	KS AND IVITOR	TANT DECISIONS:
	None		
WEATHER CONDITIONS:	IMPORTANT TELEPHO	NE CALLS:	
Cold 330	ron	THE CILLOS.	
Colox >3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
IH PERSONNEL ON SITE:			
SIGNATURE: Paulma-	DATI	3: 1/20/1	J
		10-1	

SUPERVISOR: POW INESS	DATE: 1/2///	4	Page / of /
PROJECT NAME: WILLER ARMORY		PROJECT N	
FIELD ACTIVITY SUBJECT: Clearly	1 lead Paint	· '	
DESCRIPTION OF DAILY ACTIVITIES AN	D EVENTS:	-	
7:00 9 workers 1:	SUPPRUISE &	ensita	
5 workers to F.			Kill Rom
4 workers do ma			
10:00 911 Poly			·
Jo Hepa Vac F	loor + sto	R+ MCP	
11:50 louch 1	2:30 011	BACK	
Some week			
3:00 CREW FINIS	hed vacco	Rew do stant	<u> </u>
Chamber map wit	h Fleer 31	RUpen	
5:00 Shet does	n For the	DRY	
24			
	-		111
**			
VISITORS ON SITE:		PLANS AND SPEC ORDERS AND IMP	CIFICATIONS, AND CORTANT DECISIONS:
pome.	over	- 0 - 16 - 18	
WEATHER CONDITIONS:	IMPORTANT TEL	EPHONE CALLS:	
Cold 380 winely	Now		·
IH PERSONNEL ON SITE:			_
SIGNATURE: Yan non		DATE: //ב/	14

SUPERVISOR: DAVI JOESS 1	DATE: 1/22/14	47	Page / of /
PROJECT NAME: WALTERS ARMORY		PROJECT NO.	5424
FIELD ACTIVITY SUBJECT: Clean F	TOORS		
DESCRIPTION OF DAILY ACTIVITIES AN			
7:00 CREW LIZE 9	WORKUL I SUPPAU	iceu	
5 mars La Continu			
4 men de clean			-
9:50 DRILLAM			Dleted.
cours to vac la			
11:20 lunch 1	2:30 BMCK		
Crow de Firis	h VAC all 1	rack aloo	va
walls.			<u> </u>
230 ORILLAM	to get 2nd	MCA	
4:36 start C	leanup & Br	ea all	
Hep VAC Flite	KS + BAG 5	J	
500 bokup	LEFT For the	nny	
			
VISITORS ON SITE:	CHANGES FROM PLAN	IS AND SPECIET	CATIONS AND
			TANT DECISIONS
over head Doore	port		
Completed all moasurinats	, u		
WEATHER CONDITIONS:	IMPORTANT TELEPHO	NE CALLS:	
Cold 22°	DARWIN Che	saut	
IH PERSONNEL ON SITE:			
SIGNATURE: Parlure	DAT	E: 1/22/1	cf
			7

1

ENVIRONMENTAL ACTION INC. P.O. BOX 1029 JENKS, OK, 74037 (918) 298-4080

SUPERVISOR: PAUL INESS	DATE: //23/24		Page / of
PROJECT NAME: WALTER'S ARME		PROJECT NO.	5414
FIELD ACTIVITY SUBJECT: C/FOLD	H + Load Tenil		
DESCRIPTION OF DAILY ACTIVITIES AN	D EVENTS:		
7:00 CREW SIZE	A WOKKERS /SUP	excised	
CRUNOF 5 La			
Jaky areas de		_	+4
2nd Time + B,		1	
11:00 4 weakers	te load TRai	Lis reed	
to leave cheme		•	
12:00 /vnch.		us home	
4 men do Fin			
1:30 911 0/00	•		,
	Fog the DAL		
	HIPRN WARN		ideal ann
Come in			1
		•	
			·
			٧,
VISITORS ON SITE:	CHANGES FROM PLA	ANS AND SPECIFI	CATIONS, AND
pore	OTHER SPECIAL ORI	DERS AND IMPOR	TANT DECISIONS
Neil			
	. `		
WEATHER CONDITIONS:	IMPORTANT TELEPH	ONE CALLS:	
Cold 200	None		
IH PERSONNEL ON SITE:			
SIGNATURE: Carlons	DA	TE: //23/	14
	250	1/2/	

PAGE 1 OF _____

Job Name WATTERS 19RMOR	N	Job No.	5424
	7		,
Day _//2/14	_Date		

Name Nombre	Start Time Tiempo de Principio	Ending Time Final de Tiempo	Start Time Tiempo de Principio	Ending Time Final de Tiempo	Total Hours Horas Totales
PAUL INESS	9:00	11:30	12:30	5-00	
us Botton					
SAMUEL HEANESY					
Apondio BELTERW					;
Generalo Sal, ordo.				\	
LIA LO DIO SIGNIFICAZZA					
FOLMIN RULLAR					
Kewin Gonzalez					
Romely Roland					
				7	
1/3/14	7:00	11/20	12130	5,00	
Paul INESS		(
Samuel Henrescy					
CENALO SALGACTO					
CENADO SAIGADO UNIERIO SANCHEZ					
Royales Rolored					
william Bottom					
Formin River		1.		1	
Ahurd to Britain					
KOUIN (FINZAlez					
			/		

SUPERVISOR: Paul TUESS	DATE: 1/3/14		Page of [
PROJECT NAME: WALTER ARMORE	Λ	PROJECT NO.	5424
FIELD ACTIVITY SUBJECT: Perp were	K Eng Asharda AA		
DESCRIPTION OF DAILY ACTIVITIES AT	ND EVENTS:		****
7:00 creas OF 9 works	RS / Supravise on	vsite	
CREW to Continue week			
4:00 CALLER DOL TA	IKEd-40 Clark	Bosnell	•
Set a Rep Inspection	n FOR 1/6 at	/:00	
10:00 ENTERN Bill S	et AIR MONGYORI	Ma	
11:00 CHIED MARWIN	~ FOUND Pipe -	ENChuse	
between - are Restro	oms OK TO Den	20	
11:30 12Nch			
12:30 All BACK			
GRAJK to Lowelet	about Roll OFF	Numnsten)	GR
Domo of OFFRES 18	Deill Room		
· Q:30 Standed 4 MEN		walls	
For Vicon/Lune	200 +-		
4:00 Jones to lay	depo clotta und	lon P. He	
also howethe ousite	with Asbestos an	Ast Tracile	
4:50 CARRY to Clean	UP last Gog A	MANAY	14
	W 50		
VISITORS ON SITE:	CHANGES FROM PLAN OTHER SPECIAL ORDI	NS AND SPECIFI	CATIONS, AND
NOR			TAMI DECISIONS:
	NORE		
WEATHER CONDITIONS:	IMPORTANT TELEPHO	NE CALLS:	
Cold 38°	POL-CIMEKB	15 mil	
CVIA CV	ENERCON-B,	il Mukel	
IH PERSONNEL ON SITE:			
SIGNATURE: Jahrs	DAT	E: 1/3/1	F

PAGE 1 OF _____

Job Name WALT	ee 5	Amenaly	Job No.	5424
		7	•	1/
Day		Date		

Name Nombre	Start Time Tiempo de Principio	Ending Time Final de Tlempo	Start Time Tiempo de Principio	Ending Time Final de Tiempo	Total Hours Horas Totales
PAUL INESS	7:00	11:30	1.2:30	5:00	
william Botham		, .			
Abundio Beltan					
Gernado Spignolo					
VALERIO SANCHEZ-					
Edwid Riveria					
Kevin GONZAlez					
Rochey Roland					
Dovid LeasAR					
1-7	1		/	\	
1//					
Paul INESS	7:00	11:30	12:20	5:00	
Kevin Gonzalez		7			
Edwin River					
GERARDO Sulado					
Rodrey Rolynich					
Abundia BelfRAA					
william Botton		1.			
DAVING CEASAR)	
VALERIO SANKEZ				7	

DAILY SIGN IN SHEET PAGE 1 OF ____

Job Name WALTER	Amendy	Job No. 5424
Day	Date	

Name Nombre	Start Time Tiempo de Principio	Ending Time Final de Tietnpo	Start Time Tiempo de Principio	Ending Time Final de Tiempo	Total Hours Horas Totales
	1.00	11:30	12.80	0,00	
williams Bottom	- (· -	-			
Abundin Beltran	 \	\			
Gernado Sa gado	 				
Valeria Sanchez-					
Edwid Riveria					
Kevin GONZAlez			/_		
Rochey Roland					
Dourd LoasAR)	
			<i></i>		
1/9					
Paul INESS	7:00	11:30	12:20	5:00	
Keuin Gonzalez		+			
Edwin Rivera					
GERARDO Sulgado]	
Rodren Roland					
Abundio Beltran					
william Bo-tone					
DAVICE CRASTAR				1	
VALERIO SALVEZ				5	
V TICKE SALVET	 			 	
		 			
	 		 	<u> </u>	-
		 	 		
1			-		
		<u> </u>		1	1

DAILY SIGN IN SHEET PAGE 1 OF _____

Job Name WAlters	Amendy	Job No. 5424
	Date	
Day	Date	

Name Nombre	Start Time Tiempo de Principio	Ending Time Final de Tiempo	Start Time Tiempo de Principio	Ending Time Final de Tiempo	Total Hours Horas Totales
PAUL INESS	7:00	11:30	12:30	5:00	
william Bottom		/ .			
Abundio Beltan	(
Gernacio Salando					
VAleria Sauchez-		17			
Edward Rivera					
Cruin GONZAlez		-			
Rodrey Ro'AND			 		,
Douid LeasAR	 /-	 	 		
	-	1	<u> </u>	 	
7/19		111-6	21700		
FAUL INESS	7:60	11:30	12:20	5:00	
KEUIN GONZALEZ	(<i>f</i>	 	 	 -
Edwin Rivera	<u> </u>			\	
GERARDO Sulgado				 	
Rodrig Rolanich					<u> </u>
Abundio Beltann		•			
william Botton					
DAVIOL GRASIAR					
VALODO SANKEZ				7	
Title 38.CD					
			<u> </u>		
		 			
		 			<u> </u>
1		<u> </u>			
	<u> </u>	<u>.</u>			<u> </u>

DAILY SIGN IN SHEET PAGE 1 OF ____

Job Name walters	Amenay	Job No. 5424
Day	Date	

Name Nombre	Start Time Tiempo de Principio	Ending Time Final de Tiempo	Start Time Tiempo de Principio	Ending Time Final de Tiempo	Total Hours Horas Totales
PAUL INEGS	7:00	11:30	12:30	5:00	
william Bottom					
Abundio BeltRAN		<u> </u>			
GERARCIO SALGADO	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
Valerio Sauchez-					
Folward Russen					
Kevin Gonzalez					
Rodrey Roland					
David ZeasAR					
1/16	1	\		\	
1/16	,				
Paul INESS	7:00	11:30	12:20	5:00	
Keuin Gonzalez	(1		(
Edwin Rivera				 	
GERARdo Sulgacho		<u> </u>	<u> </u>	 	
Roduen Roland					
Abundio BeltRAN				 	
william Botton		1	 	1	
DAVIO CEASIAR			 	<u> </u>	
VALEDO SAICKEZ			-		<u> </u>
	<u></u>				
					<u> </u>
			<u> </u>		
				<u> </u>	

DAILY SIGN IN SHEET PAGE 1 OF _____

Joh Name WALTERS	Amendy	Job No. 5424
	7	
Day	Date	

Name	Start Time	Ending	Start Time	Ending	Total
Nombre	Tiempo de	Time	Tiempo de	Time	Hours
1/20	Principio	Final de	Principio	Final de Tiempo	Horas Totales
	0.	Tiempo		``	J. (1.12 (1.13)
PAUL INESS	7:00	11:30	1.2:30	5:00	
william Bottom					
Abundio Beltern		\			
GERARCIO SALGADO					
VAleria Sanchez-					·,
Edward Rivera				/	
Levin GONZAlez			/_		
Roderey Rolavel					
Druid LoasAR				}	
		. \	./	1	
1/2/					
Paul INESS	7:50	11:30	12:20	5:00	
Kevin GONZALEZ		7		<u> </u>	
Folia Ringer					
GERARDO SULGADO					***************************************
Rodrey Roland					
Abunda BelfRAN		· \			
william Bottom		<u> </u>			
DAVIOL CeasA.R	1			·)	
VALORIO SOICHEZ		1		4	
			<u> </u>		
			-		
		<u> </u>			<u>L</u>

PAGE 1 OF _____

Job Name WA/fer 3	Acuracy	Job No. 5 4 24
	7	
Day	Date	

Name	Start Time	Ending	Start Time	Ending	Total
Nombre	Tiempo de	Time	Tiempo de	Time Final de	Hours Horas
	Principio	Final de Tieinpo	Principio	Tiempo	Totales
	-				
Paul TNESS	7:00	11:35	12.36	5 ico	
abundio Beltann					
william Botlom					
David CeasAR					
Kevin Gonzalez -					
Edwin Riveria					
Valerio Sauchez					
Rodarn Roland	1 /				
Gernedo Salgodo	1				
1					
	1	, , , , , , , , , , , , , , , , , , , ,	1		
Paul INESS	7:00	11:30	/2:30	3:30	
abound o Beliran	7:00	11:30			
William Bothom	7:00	11:30			
	†				
Leun Conzalez	7:00	11:30			
	 				
	 				
The state of the s					
		1		<u> </u>	<u> </u>

		designed for use on e	ille (12-pitch) typewite	3 1.)							OMB No. 20	300 0000
,	UNIFORM HAZARDO	US 1. Generator ID N	umber	2. P	age 1 of 3. Eme			4. Manifest	Tracking Nu	imber	74 -	
Ш	WASTE MANIFEST	(3) 32 70	ÇÜ		1 1	310-583-	~2073	1		1297	6-850	ᄕ
П	5. Generator's Name and	Mailing Address						an mailing addres	ss)			
П		ntal Action	o imos		UVΔ	Hees	HRM	لمره				
П		th Street	Same 72106		MA	Hees	OK »	,				
П		titely a matura	homa 20106	405-262-63	45							
	Generator's Phone: 6. Transporter 1 Company	Name					···	U.S. EPA ID N	lumber			
	Fin.							(3)	10000	03459		
H	7. Transporter 2 Company							U.S. EPA ID N	umber			
	1. Hatisporter 2 Company	, tallio						1				
	8. Designated Facility Na	no and Cita Address	Ø-r	atani Maria	et en annual de la C	State Nov.		U.S. EPA ID N	lumber			-
	o. Designated Facility Na	ne and one Address		stoch Grait		, twitting		0.0. 2. 71.5				
Ш												
Ц		0 250 500		ečenia, KS	30/59			1 17	anden	530259		
	Facility's Phone:	10-778-7224	·					51	31.6.7.00	الإلىدائية (أنية 		
			er Shipping Name, Hazard	Class, ID Number,		10. Conta	iners	11. Total	12. Unit	13. V	Vaste Codes	
Ш	HM and Packing Gro					No.	Туре	Quantity	Wt./Vol.		T	
	1. (9010	(4) UN1993,	Waste Flor	mable ides	3 5 2		1 1		[5001	rood	100
SEREKAIOK	8.0.8	. 3. PCITA.	(root, Fig.	3.7005) (ERC	#12%)	uř.	0.1529					
٤						4		i la	1			
2	2.										1	
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Ш												
П						l					1	
ı			formation.									
	14. Special Handling Insti	uctions and Additional Inf	formation					-		-		
		uctions and Additional Inf	formation	, , , , , , , , , , , , , , , , , , , ,		<u></u> ,						
	14. Special Handling Insti	uctions and Additional Inf	formation									
	2.8.											
	45 CENERATORIS/OF	EDOD'S CEDTIFICATION	ON: Thereby declare that	t the contents of this cons	ignment are fully a	and accurately di	escribed above	by the proper sh	ipping name	, and are class	sified, packag m the Primar	jed, V
	15. GENERATOR'S/OF marked and labeled Evender I certify the	FEROR'S CERTIFICATIO	ON: I hereby declare that respects in proper conditi	ion for transport according terms of the attached EP/	j to applicable inte \ Acknowledgmen	mational and na t of Consent.	itional governm	ental regulations.	ipping name If export shi	, and are class ipment and I a	sified, packaç m the Primar	jed, Y
	15. GENERATOR'S/OF marked and labeled Evender I certify the	FEROR'S CERTIFICATIO	ON: I hereby declare that respects in proper conditi	ion for transport according terms of the attached EP/	g to applicable inte Acknowledgmen Intity generator) o	mational and na t of Consent.	itional governm	ental regulations.	ipping name If export shi	rpment and I a	m the Phimar	y
	15. GENERATOR'S/OF marked and labeled Exporter, I certify that the was Generator's/Offeror's Prin	FEROR'S CERTIFICATION placarded, and are in all the contents of this content in the content in t	ON: I hereby declare that respects in proper conditions in the signment conform to the tidentified in 40 CFR 262	ion for transport according terms of the attached EP/	g to applicable inte Acknowledgmen Intity generator) of Signature	mational and na t of Consent.	itional governm	ental regulations.	ipping name If export shi	rpment and I a	n the Phinar	Year
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	15. GENERATOR'S/OF marked and labeled Exporter, I certify that the was Generator's/Offeror's Prin	FEROR'S CERTIFICATION placarded, and are in all the contents of this con e minimization statement ed/Typed Name	ON: I hereby declare that respects in proper condificing ment conform to the tidentified in 40 CFR 262	ion for transport according terms of the attached EP/ 2.27(a) (if I am a large qua	o to applicable inte Acknowledgmen Intity generator) of Signature	mational and na t of Consent (b) (if I am a sm	nali quantity gen	ental regulations.	ipping name If export shi	rpment and I a	n the Phinar	Year
	15. GENERATOR'S/OF marked and labeled Exporter, I certify that I certify that the was Generator's/Offeror's Print 16. International Shipmen	FEROR'S CERTIFICATION placarded, and are in all the contents of this con e minimization statement ed/Typed Name s	ON: I hereby declare that respects in proper condificing ment conform to the tidentified in 40 CFR 262	ion for transport according terms of the attached EP/ 2.27(a) (if I am a large qua	g to applicable inte Acknowledgmen Intity generator) of Signature	mational and na i of Consent. (b) (if I am a sm	itional governm	ental regulations.	ipping name If export shi	rpment and I a	n the Phinar	Year
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	15. GENERATOR'S/OF marked and labeled Exporter, I certify that the was Generator's/Offeror's Print 16. International Shipmen Transporter signature (for 17. Transporter Acknowlec	FEROR'S CERTIFICATION placarded, and are in all the contents of this content of this content of the content of	ON: I hereby declare that respects in proper conditions in the signment conform to the tidentified in 40 CFR 262	ion for transport according terms of the attached EP/ 2.27(a) (if I am a large qua	o to applicable inte Acknowledgmen Intity generator) of Signature	mational and na i of Consent. (b) (if I am a sm	ntional government of the state	ental regulations.	ipping name If export shi	rpment and I a	n (ne Primar	Year
	15. GENERATOR'S/OF marked and labeled. Exporter, I certify the I certify the I certify that the was Generator's/Offeror's Pring 16. International Shipmen Transporter signature (for 17. Transporter Acknowled Transporter 1 Printed/Typensporter 1 Printed/	FEROR'S CERTIFICATION placarded, and are in all the contents of this content of this content of the content of	ON: I hereby declare that respects in proper conditions in the signment conform to the tidentified in 40 CFR 262	ion for transport according terms of the attached EP/ 2.27(a) (if I am a large qua	to applicable inte Acknowledgmen intity generator) or Signature ort from U.S.	mational and nation of Consent. (b) (if I am a sm	ntional government of the state	ental regulations.	IT export sni	Mon	n (ne Primar	Year
	15. GENERATOR'S/OF marked and labeled Exporter, I certify that the was Generator's/Offeror's Printer Transporter signature (for 17. Transporter Acknowlec Transporter 1 Printed/Type	EROR'S CERTIFICATION clacarded, and are in all the contents of this content in the minimization statement and flyped Name s Import exports only): gment of Receipt of Mate di Name	ON: I hereby declare that respects in proper conditions in the signment conform to the tidentified in 40 CFR 262	ion for transport according terms of the attached EP/ 2.27(a) (if I am a large qua	to applicable inte Acknowledgmen intity generator) or Signature ort from U.S. Signature	mational and na i of Consent. (b) (if I am a sm	ntional government of the state	ental regulations.	ipping name If export shi	Mon	h Day	Year
	15. GENERATOR'S/OF marked and labeled. Exporter, I certify the I certify the I certify that the was Generator's/Offeror's Pring 16. International Shipmen Transporter signature (for 17. Transporter Acknowled Transporter 1 Printed/Typensporter 1 Printed/	EROR'S CERTIFICATION clacarded, and are in all the contents of this content in the minimization statement and Typed Name s	ON: I hereby declare that respects in proper conditions in the signment conform to the tidentified in 40 CFR 262	ion for transport according terms of the attached EP/ 2.27(a) (if I am a large qua	to applicable inte Acknowledgmen intity generator) or Signature ort from U.S.	mational and nation of Consent. (b) (if I am a sm	ntional government of the state	ental regulations.	IT export sni	Mont	h Day	Year
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	15. GENERATOR'S/OF marked and labeled Exporter, I certify that the was Generator's/Offeror's Printed International Shipmen Transporter signature (for 17. Transporter 1 Printed/Typen Transporter 2 Printed/Typen Transporter 3 Pr	EROR'S CERTIFICATION clacarded, and are in all the contents of this content in the minimization statement and Typed Name s	ON: I hereby declare that respects in proper conditions in the signment conform to the tidentified in 40 CFR 262	ion for transport according terms of the attached EP/ 2.27(a) (if I am a large qua	to applicable inte Acknowledgmen intity generator) or Signature ort from U.S. Signature	mational and nation of Consent. (b) (if I am a sm	ntional government of the state	ental regulations.	n export sni	Mont	h Day	Year Year Year
	15. GENERATOR'S/OF marked and labeled Exporter, I certify that the was Generator's/Offeror's Printed Transporter signature (for 17. Transporter Acknowled Transporter 1 Printed/Type Transporter 2 Printed/Type Tr	FEROR'S CERTIFICATION placarded, and are in all the contents of this content of the content	ON: I hereby declare that respects in proper conditions in proper conditions are to the series of th	ion for transport according terms of the attached EP/L.27(a) (if I am a large qua	to applicable inte Acknowledgmen intity generator) or Signature ort from U.S. Signature	mational and nation of Consent. (b) (if I am a sm	ntional government of the state	ental regulations.	n export sni	Mont	h Day	Year Year Year
	15. GENERATOR'S/OF marked and labeled Exporter, I certify that the was Generator's/Offeror's Printed Transporter signature (for 17. Transporter 1 Printed/Typ Transporter 2 Printed/Typ 18. Discrepancy	EROR'S CERTIFICATION placarded, and are in all the contents of this content in the eminimization statement and frame and frame and frame and frame and frame and frame are in all the content in the cont	ON: I hereby declare that respects in proper conditions in proper conditions are to the series of th	ion for transport according terms of the attached EP/ 2.27(a) (if I am a large qua	to applicable inte Acknowledgmen intity generator) or Signature ort from U.S. Signature	mational and nation Consent. (b) (if I am a sm	ntional government of the state	ental regulations.	n export sni	Mont	h Day	Year Year Year
	15. GENERATOR'S/OF marked and labeled Exporter, I certify that the was Generator's/Offeror's Printed Transporter signature (for 17. Transporter 1 Printed/Typ Transporter 2 Printed/Typ 18. Discrepancy	FEROR'S CERTIFICATION placarded, and are in all the contents of this content of the content	ON: I hereby declare that respects in proper conditions in proper conditions are to the series of th	ion for transport according terms of the attached EP/L.27(a) (if I am a large qua	oto applicable inte Acknowledgmen intity generator) or Signature ort from U.S. Signature	mational and nation Consent. (b) (if I am a sm	nali quantity gen	ental regulations. nerator) is true.	ection	Mont	h Day	Year Year Year
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FER, INC. 5055 S. Eastern • Oklahoma City, OK 73129

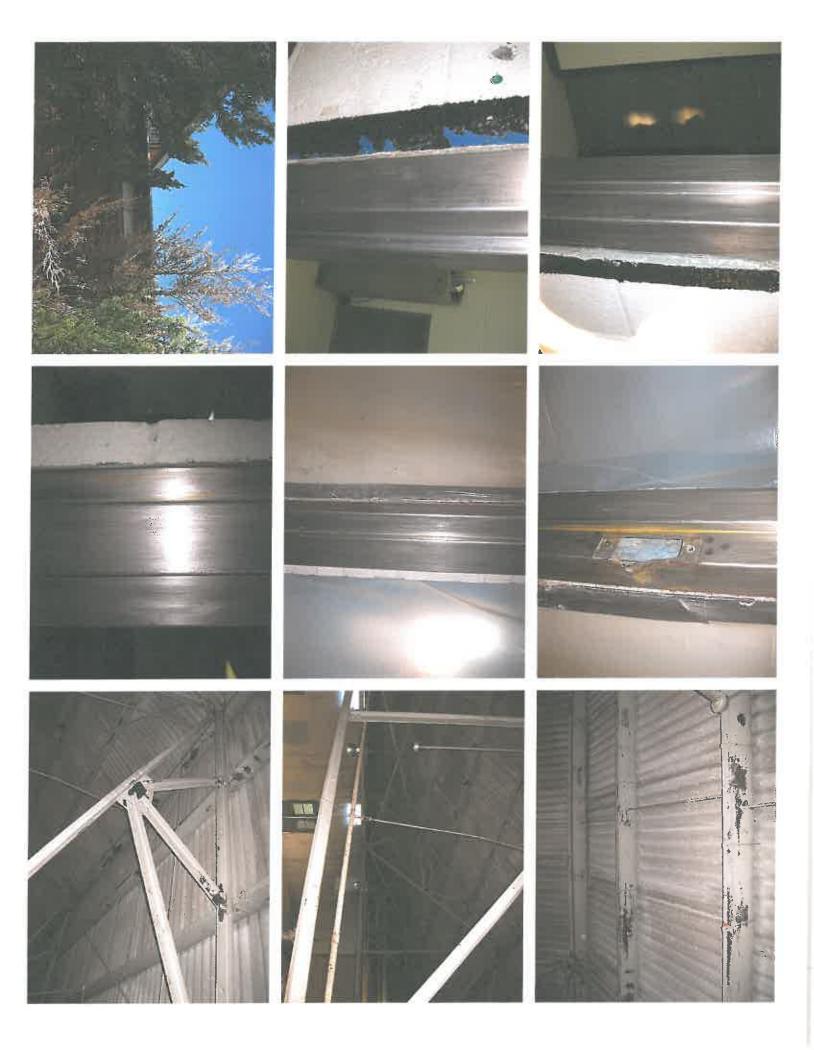
INVOICE

39353

5055 S. Eastern • Oklahoma City, Ok 75129	
hone: (405) 677-4992 or (405) 495-6336 • Fax: (405) 677-4959	DATE: 5-16-2014 5/16/2014
	S
S Environmental Action Inc.	H Environmental Action Inc.
L 1644 NW 5th Street	1644 NW 5th Street
υ 	70106
- Oklahoma City, Okishoma 73106	Oklahoma City, Oklahoma 73106
O Darwin 405-990-0070	5042971

CUSTOMER OR	DER NO.	CHECK	VISA	MASTERCARD
QUANTITY	DESCRIPTION		UNIT PRICE	AMOUNT
2	Open Top Drum		\$45.00 each	
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CERTIFICATE OF INSPECTION WALTERS ARMORY April 15, 2014

Walters, OK

At the request of the Oklahoma Department of Environmental Quality, a site inspection was conducted on April 15, 2014, at the Walters Armory to assess the completeness of the floor tile mastic removal and to evaluate the lead content of yellow paint located behind the range in the kitchen. This inspection was performed by Emmett Muenker, an Oklahoma-licensed Inspector/Management Planner, OKMP-130435 and Lead-Based Paint Risk Assessor, OKRASR11260.

<u>FLOOR TILE MASTIC</u>: A visual inspection of the areas of floor tile and mastic removal was conducted in the three rooms where the floor tiles and mastic were to be removed. The floor tiles were completely removed; however, some mastic remained on the surface as well as heavy mastic stains on the concrete. The (embedded) mastic stains may not be removable, but the mastic remnants on the surface can be readily removed with an application of mastic remover. Allowing the remover to "soak" for a few hours may also remove some of the mastic stains. Photographs of the floor of these rooms are attached.

<u>PAINT BEHIND RANGE</u>: A paint chip sample was collected from the peeling yellow paint behind the range in the kitchen and a 1 SF wipe sample was collected from the floor in front of the range. These samples were submitted under chain of custody to QuanTEM Laboratories of Oklahoma City for analysis. The lead content of the paint was 0.353 %. Lead-based Paint (LBP) is defined as paint containing 0.5% or greater lead content. The wipe sample from the floor contained 18.7 μ g/ft², with the threshold for LBP contamination at 40 μ g/ft². Photographs of the paint and wipe sample location are attached.

RECOMMENDATIONS:

- Additional mastic removal is recommended in order to remove the remaining surface remnants of the mastic present in the three rooms, with an effort made to remove the deeper mastic stains by allowing the remover to remain on the floor for several hours before final cleaning. It may or may not be possible to remove these embedded stains.
- 2) No action is recommended with regard to the yellow paint behind the range, as the paint is not LBP.

Emmett W. Muenker

Oklahoma AHERA-licensed Inspector/Management Planner, OKMP-130435

Oklahoma Lead-Based Paint Risk Assessor, OKRASR11260

Date of Inspection: April 15, 2014

Date of Sample Analyses: April 16, 2014

Attachments:

Photographs

Laboratory Report/Chain of Custody

PHOTOGRAPHIC RECORD

Project No: ENMISC2509



Photo #1: Mastic Removal Remnants



Photo #2: Mastic Removal Remnants

Project Name: Walters Armory, Floor Tile/Mastic



Photo #3: Mastic Removal Remnants



Photo #4: Mastic Removal Remnants



Photo #5: Mastic Removal Remnants



Photo #6: Mastic Removal Remnants

PHOTOGRAPHIC RECORD

Project No: ENMISC2509



Photo #1: Yellow Paint Behind Range

Project Name: Walters Armory, Yellow Paint



Photo #2: Wipe Sample Location by Range



Environmental Chemistry Analysis Report

QuanTEM Set ID:

234294

Date Received:

04/16/14

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

вм

Date of Report:

4/16/2014

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acet. No.:

A845

Project:

Walters Armory

Location:

Walters, OK

Project No.:

ENMISC-WAL

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	WAL-01	Paint	Lead	0.353	0.00479		04/16/14 13:30	P EPA 7000B (1)
002	WAL-02	Wipe	Lead	18.7	9		04/16/14 13:30	W NIOSH 9100

Authorized Signature:

Benton Miller, Analyst

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculations.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

Supplemental Report **QAQC** Results

QA ID: Test:

11982

Lead

Date:

4/16/2014

Matrix: Paint Lab Number:

234294

Approved By:

Benton Miller Date Approved: 4/16/2014

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	O
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	Hìgh Limit
CCV	4.5	4.9	5.5
FCV	4.5	5	5.5
ICV	0.9	1.1	1.1
RLVS	0.08	0.117	0.12

Duplicate Data:

Sample Number	Result	Duplicate	% RPD
234188-002	4.225	4.320	2.2

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
LCS-P1	0.000	0 1.880	2.014	107.1	1.911	101.7	5.2
234188-002	4.22	2.000	6.743	125.9			

Supplemental Report QAQC Results

QA ID:

11983

Test:

Lead

Date:

4/16/2014

Matrix:

Wipe

Lab Number:

234294

Approved By:

Benton Miller

Date Approved: 4/16/2014

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	o
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit	
ICCV	4.5	4.9	5.5	
FCV	4.5	5	5.5	
ICV	0.9	1.1	1.1	
RLVS	0.144	0.202	0.216	

Duplicate Data:

Recovery Data:

According Duties.							
Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dap. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W1	0.000	5.010	4.561	91.0	4,903	97.9	7.2

Authorized Signature:_

Benton Miller, Analyst



Lead Chain-of-Custody

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502 (800) \$22-1650 (405) 755-7272 Fax: (405) 755-2058 www.quenten.com

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Lab No. 234294 This Box for Lab Use Only

Company Name: FRETCHOLI SARVICES LAK

Project Location: WMTERS, OK

Acath 1885 Project Name: WINTERS HEMORY

Project Number: ENTHISC-LIMPS.

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	LEGAL DOCUMENT Please Print Legibly		TURNAROUND TIME	Same Day	X 24 Hour	3-Dey	5-day			CONTACT INFORMATION	Nere:	Bre Durover	Phone 204-472	Report Results VIA (CHOOSE ONE):	F.	X QuenTEM WebSte	Filler	
	Sample Matrix Codes	A-Soil	B - Paint Chips	C - Surface / Dust Wipes	D - Bulk Macellaneous	E - Air Cessette	F - Other (SPECIFY)											S CHESichs aludia 8:15 Mily Bue
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Setunday FedEx Shipping - CALL TO SCHEDULE: Use this address for Saturday FedEx only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 Merk Package WOLD FOR SATURDAY PICKUP*

Revision: May 2006

CERTIFICATE OF INSPECTION WALTERS ARMORY April 28, 2014 Walters, OK

At the request of the Oklahoma Department of Environmental Quality, a follow-up site inspection was conducted on April 28, 2014, at the Walters Armory to assess the completeness of the floor tile mastic removal following an inspection on April 15 indicating that additional mastic removal was needed to complete the abatement work. This inspection was performed by Emmett Muenker, an Oklahoma-licensed Inspector/Management Planner, OKMP-130435.

A visual inspection of the areas of floor tile and mastic removal was conducted in the three rooms where the floor tiles and mastic had been removed. The mastic remaining on the surface at the time of the April 15 inspection had been removed. The contractor had completed final cleaning and the remnants present earlier had been removed. The surface mastic has now been removed, but some imbedded stains remain. This is not unusual on porous concrete floors. Photographs of the floors of these rooms are attached.

RECOMMENDATIONS:

It is our opinion that the mastic removal has now been completed satisfactorily.

Emmett W. Muenker

Oklahoma AHERA-licensed Inspector/Management Planner, OKMP-130435

Date of Inspection: April 28, 2014

Attachment:

Photographs, 4-28-14

PHOTOGRAPHIC RECORD

Project No: ENMISC2509



Photo #1: Following Re-cleaning



Photo #3: Following Re-cleaning



Photo #5: Following Re-cleaning

Project Name: Walters Armory, Floor Tile/Mastic



Photo #2: Following Re-cleaning



Photo #4: Following Re-cleaning



Photo #6: Following Re-cleaning

CONFIRMATION SAMPLING

CONFIRMATION SAMPLING RESULTS

Walters Armory

The Department of Environmental Quality (DEQ) personnel sampled the Walters Armory for lead dust to confirm room floors were below the Housing and Urban Development (HUD) standard of 40 micrograms per square foot ($\mu g/ft^2$) for child occupied facilities after all lead-based paint and lead dust abatement was complete. Below is a summary of the sample events and results.

On **February 7, 2014**, after all floors of the building had been cleaned by a DEQ contractor, DEQ personnel sampled the floors of the building in locations that had previously reported elevated levels of lead and areas where there was a potential for lead dust to be tracked to confirm these areas were below the HUD standard of $40 \, \mu g/ft^2$. Below is a summary of the results. Sample results are attached (Attachment 1).

- Twenty-five (25) samples were taken on the floor of the armory and six (6) samples were above 40 µg/ft².
 - o Sample #9 Result = 124 μ g/ft²
 - o Sample #12 Result = $56.8 \mu g/ft^2$
 - o Sample #13 Result = $53.1 \mu g/ft^2$
 - o Sample #14 Result = $60.5 \mu g/ft^2$
 - o Sample #20 Result = $183 \mu g/ft^2$
 - o Sample #22 Result = 194 μ g/ft²

On April 3, 2014, after the areas were re-cleaned by a DEQ contractor, DEQ personnel sampled the floor locations where the previous samples had failed to confirm these areas were below the HUD standard of 40 μ g/ft² for lead. Below is a summary of the results. Sample results are attached (Attachment 2).

• Sixteen (16) samples were taken on the floor of the armory and two (2) samples were above 40 $\mu g/ft^2$.

- o Sample #7 Result = $56.4 \mu g/ft^2$
- o Sample #8 Result = $301 \mu g/ft^2$

On April 9, 2014, after the areas were re-cleaned by a DEQ contractor, DEQ personnel sampled the floor locations where the previous samples had failed to confirm these areas were below the HUD standard of 40 μ g/ft² for lead. Below is a summary of the results. Sample results are attached (Attachment 3).

• Two (2) samples were taken on the floor of the armory; all samples returned results lower than 40 μ g/ft² for lead.

ATTACHMENT 1

February 7, 2014 SAMPLE RESULTS



State of Oklahoma DEQ Land Protection Attn: Dustin Davidson 707 N. Robinson Oklahoma City, OK 73102

Re: QuanTEM ID 231650

QuanTEM appreciates the opportunity to provide analytical testing services to you. Attached are your reports and other supporting documentation for the above referenced project.

Thank you for making QuanTEM your lab of choice. If you have any question concerning this or other reports please feel free to contact us at 800-822-1650.

We continually work to improve our service. Help us out by providing feed back on your experience at www.QuanTEM.com. Click on Service Survey and fill out the form. We look forward to hearing from you.

Respectfully, QuanTEM Laboratories, LLC.







Environmental Chemistry Analysis Report

QuanTEM Set ID:

231650

Date Received:

02/07/14

Received By:

Sherric Leftwich

Date Sampled:

Time Sampled:

Analyst:

CC

Date of Report:

2/10/2014

AIHA ID: 101352

Client:

State of Oklahoma

DEQ Land Protection

Attn: Dustin Davidson

707 N. Robinson

Oklahoma City. OK 73102

Acct. No.:

Project:

Walters Armory

Location:

Walters, OK

Project No.: N/A

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	1	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/10/14 10:15	W NIOSH 9100
002	2	Wipe	Lead	10.1	9	ug/sq. Ft.	02/10/14 10:15	W NIOSH 9100
003	3	Wipe	Lead	<9.00	9		02/10/14 10:15	W NIOSH 9100
004	4	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/10/14 10:15	W NIOSH 9100
005	5	Wipe	Lead	<9.00	9	ug/sq. Ft.		W NIOSH 9100
006	6	Wipe	Lead	12.4	9	ug/sq. Ft.	02/10/14 10:15	W NIOSH 9100
007	7	Wipe	Lead	19.1	9	ug/sq. Ft.	02/10/14 10:15	W NIOSH 9100
800	8	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/10/14 10:15	W NIOSH 9100
009	9	Wipe	Lead	124	9	ug/sq. Ft.	02/10/14 10:15	W NIOSH 9100
010	10	Wipe	Lead	19.1	9	ug/sq. Ft.	02/10/14 10:15	W NIOSH 9100
011	11	Wipe	Lead	12.0	9	ug/sq. Ft.	02/10/14 10:15	W NIOSH 9100
012	12	Wipe	Lead	56,8	9	ug/sq. Ft.	02/10/14 10:15	W NIOSH 9100
013	13	Wipe	Lead	53.1	9	ug/sq. Ft.	02/10/14 10:15	W NIOSH 9100
014	14	Wipe	Lead	60.5	9	ug/sq. Ft,	02/10/14 10:15	W NIOSH 9100
015	15	Wipe	Lead	21.7	9	ug/sq. Ft.	02/10/14 10:15	W NIOSH 9100
016	16	Wipe	Lead	14.1	9		02/10/14 10:15	W NIOSH 9100
017	17	Wipe	Lead	<9.00	9		02/10/14 10:15	W NIOSH 9100

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculations.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified, EPA 7000B Analysis Modified EPA Method 7082'(2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified



Environmental Chemistry Analysis Report

QuanTEM Set ID:

231650

Date Received:

02/07/14

Received By:

Sherric Leftwich

Date Sampled:

Time Sampled:

Analyst:

CC

Date of Report:

2/10/2014

AJHA ID: 101352

Client:

State of Oklahoma

DEQ Land Protection

Attn: Dustin Davidson

707 N. Robinson

Okłahoma City, OK 73102

Acct. No.:

13486

Project:

Walters Armory

Location:

Walters, OK

Project No.: N/Λ

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
018	18	Wipe	Lead	<9.00	9	ug/sg. Ft.	02/10/14 10:15	W NIOSH 9100
019	19	Wipe	Lead	27.7	9	ng/sq. Ft.	02/10/14 10:15	W NIOSH 9100
020	20	Wipe	Lead	183	9		02/10/14 10:15	W NIOSH 9100
021	21	Wipe	Lead	30.8	9	ug/sq. Ft.		W NIOSH 9100
022	22	Wipe	Lead	194	9	ug/sq. Ft.		W NIOSH 9100
023	23	Wipe	Lead	35.9	9	ug/sq. Ft.		W NIOSH 9100
024	24	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/10/14 10:15	W NIOSH 9100
025	25	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/10/14 10:15	W NIOSH 9100
026	26	Wipe	Lead	24.5	9	ug/sq. Ft.	02/10/14 10:15	W NIOSH 9100
027	27	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/10/14 10:15	W NIOSH 9100
028	28	Wipe	Lead	<9.00	9		02/10/14 10:15	W NIOSH 9100

Authorized Signature:

Benton Miller, Analyst

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculations.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

Supplemental Report QAQC Results

QA ID: 11778 Test: Lead

Date: Matrix: 2/10/2014 Wipe

Lab Number: Approved By: 231650

Date Approved: 2/10/2014

Benton Miller

Notes:

Blank Data:

Type of Blank		Blank Value	 • :
FCB =	$\widetilde{g}(t)$		o:
Matrix Blank		·	0

Standards Data:

Standard	i	Low Limit	Obtained	High Limit
ccv	— ——- ——-	4.5	<u></u>	5.5
FCV		4.5.	5.1	
ICV	!	0.9	1.03	1.1
RLVS	TEST HE STEE	0.144	0.195	0.216

Duplicate Data:

Recovery Data:

Sample Number	Result Spike Level	Result + Spike	% Recovery Dup. Result +	% Dup.	% Spike RPD
M2-M1	0.000 5.050	5.205	103.1 5.015	99.	3 3.7

Authorized Signature:

Benton Miller. Analyst

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2033 Heritage Park Drive, Oklahoma City, OK 73120-7502 (800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

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Contact Information			Project Information	ormation	170	Report	Report Results (Flone box)
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Contact Elithan & DWO 15	Cell Phone: 479 -363-4589	Project Location:	Wollers,	265, Ok		5	Other
	E-mail: Difference or col	Project ID;					
Sampled By: Name Brittany (Duns B	Drittany, Journ 5 (2004 Date: 2)	11/14					
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Walters Armon Lead Wipe Confirmation Sampling Plan 2/7/2014 Q#231650 田 10 19] 6 回 凹 a0 a 21 19 四 15 24 国 ß 16

26 Samples

ATTACHMENT 2

April 3, 2014 SAMPLE RESULTS



State of Oklahoma
DEQ Land Protection
Attn: Dustin Davidson
707 N. Robinson
Oklahoma City, OK 73102

Re: QuanTEM ID 233781

QuanTEM appreciates the opportunity to provide analytical testing services to you. Attached are your reports and other supporting documentation for the above referenced project.

Thank you for making QuanTEM your lab of choice. If you have any question concerning this or other reports please feel free to contact us at 800-822-1650.

We continually work to improve our service. Help us out by providing feed back on your experience at www.QuanTEM.com. Click on Service Survey and fill out the form. We look forward to hearing from you.

Respectfully, QuanTEM Laboratories, LLC.







Environmental Chemistry Analysis Report

QuanTEM Set ID:

233781

Date Received:

04/03/14

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

BM

Date of Report:

4/4/2014

AIHA ID: 101352

Client:

State of Oklahoma

DEQ Land Protection

Attn: Dustin Davidson 707 N. Robinson

Oklahoma City, OK 73102

Acct. No.:

B486

Walters Armory Confirmation Sampling

Project: Location:

Walters, OK

Project No.: N/A

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	; Units	Date/Time Analyzed	Method
001	1	Wipe	Lead	<9.00	9	unina Et	04/04/14 14 15	
002	2	Wipe	Lead	<9.00	9	ug/sq. Ft.		W NIOSH 9100
003	3	Wipe	Lead	<9.00	9	ug/sq. Ft.		W NIOSH 9100
004	4	Wipe	Lead	18.9	9	ug/sq. Ft.		W NIOSH 9100
005	5	Wipe	Lead	<9.00		ug/sq. Ft.		W NIOSH 9100
006	6	Wipe	Lead	37.5	9	ug/sq. Ft.		W NIOSH 9100
007	7	Wipe	Lead	56.4	9	ug/sq. Ft.	04/04/14 14:15	W NIOSH 9100
008	8	Wipe	Lead	-	9	ug/sq. Ft.	04/04/14 14:15	W NIOSH 9100
009	9	Wipe	Lead	301	9	ug/sq. Ft.	04/04/14 14:15	W NIOSH 9100
010	10	Wipe	Lead	9.01	9	ug/sq. Ft.	04/04/14 14:15	W NIOSH 9100
011	11	-		31.9	9	ug/sq. Ft.	04/04/14 14:15	W NIOSH 9100
012	12	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/04/14 14:15	W NIOSH 9100
013	13	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/04/14 14:15	W NIOSH 9100
014		Wipe	Lead	<9.00	9	ug/sq. Ft.	04/04/14 14:15	W NIOSH 9100
	14	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/04/14 14:15	W NIOSH 9100
· 015	15	Wipe	Lead	<9.00	9		04/04/14 14:15	W NIOSH 9100
016	16	Wipe	Lead	21.1	9		04/04/14 14:15	W NIOSH 9100

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculations.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified



Environmental Chemistry Analysis Report

QuanTEM Set ID:

233781

Date Received:

04/03/14

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

BM

Date of Report:

4/4/2014

AJHA ID: 101352

Client:

State of Oklahoma

DEQ Land Protection

Attn: Dustin Davidson

707 N. Robinson

Oklahoma City, OK 73102

Acct. No .:

B486

Project:

Walters Armory Confirmation Sampling

Location:

Walters, OK

Project No.: N/A

QuanTEM

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Matrix Parameter

Reporting

keporun Limits Units

Date/Time

Analyzed

Method

Authorized Signature:

Results

Benton Miller, Analyst

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculations.

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EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

Supplemental Report QAQC Results

QA ID:

11935

Test:

Lead

Date: Matrix: 4/4/2014

Wipe

Lab Number:

233781

Approved By:

Benton Miller

Date Approved: 4/4/2014

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	
Matrix Blank	0

Standards Data;

Standard	Low Limit	Obtained	High Limit
CCV	4.5	5.2	5.5
FCV	4.5	5.2	5.5
ICV	0.9	0.96	1.1
RLVS	0.144	0.209	0.216

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W2	0.000	5.000	5.021	100.4	4.640.	92.8	7.0
MS-WI	0.000	5.010	4.774	95.3	4.918	98.2	7.9

Authorized Signature:_

Benton Miller, Analyst



LEAD CHAIN OF CUSTODY

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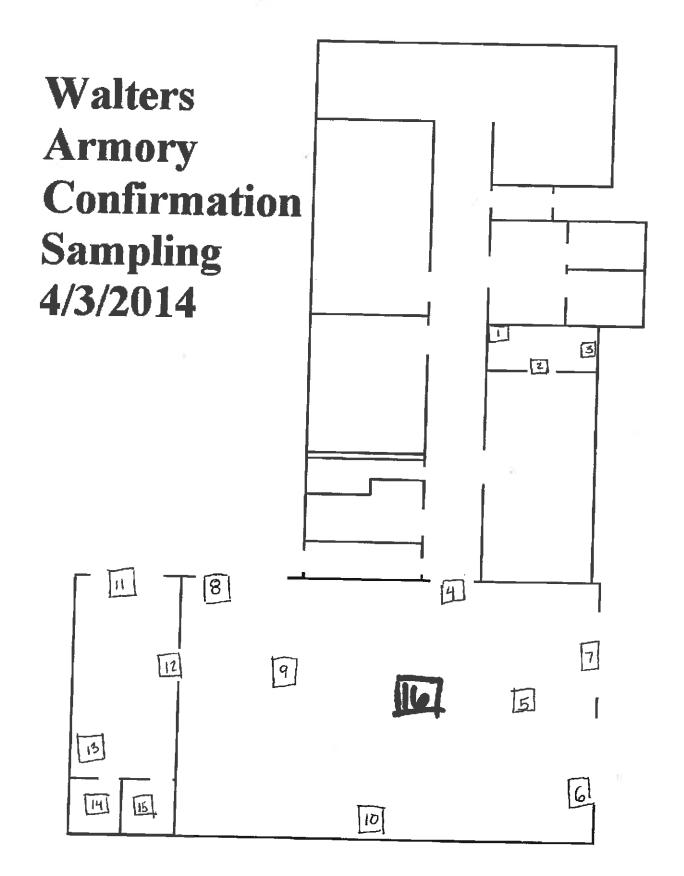
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ATTACHMENT 3

April 9, 2014 SAMPLE RESULTS



State of Oklahoma
DEQ Land Protection
Attn: Dustin Davidson
707 N. Robinson
Oklahoma City, OK 73102

Re: QuanTEM ID 233997

QuanTEM appreciates the opportunity to provide analytical testing services to you. Attached are your reports and other supporting documentation for the above referenced project.

Thank you for making QuanTEM your lab of choice. If you have any question concerning this or other reports please feel free to contact us at 800-822-1650.

We continually work to improve our service. Help us out by providing feed back on your experience at www.QuanTEM.com. Click on Service Survey and fill out the form. We look forward to hearing from you.

Respectfully, QuanTEM Laboratories, LLC.







Environmental Chemistry Analysis Report

QuanTEM Set ID:

233997

Date Received:

04/09/14

Received By:

Joanna Mueller

Date Sampled: Time Sampled:

Analyst:

Date of Report:

BM

4/10/2014

AIHA ID: 101352

Client:

State of Oklahoma

DEQ Land Protection

Attn: Dustin Davidson

707 N. Robinson Oklahoma City, OK 73102

B486

Acct. No.:

Walters Armory Resample 2

Project: Location:

Walter, OK

Project No.:

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	1	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/10/14 9:00	W NIOSH 9100
002	2	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/10/14 9:00	W NIOSH 9100

Authorized Signature;

Benton Miller, Analyst

Note: Sample results have not been corrected for blank values.

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EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

Supplemental Report **QAQC** Results

QA ID:

11950

Lead Test:

Date: Matrix: 4/10/2014

Wipe

Lab Number:

233997

Approved By:

Benton Miller

Date Approved: 4/10/2014

Notes:

Blank Data:

Type of Blank	-	Blank Value
FCB	\top	
Matrix Blank		0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	5.1	5.5
FCV	4.5	5	5.5
ICV	0.9	1,	1.1
RLVS	0.144	0.159	0.216

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level		% Recovery	Dup. Result + Spike	% Dup.	% Spike RPD
MS-WI	0.000	5.010	4.846	96.7	5.182,	103,4	6.7

Authorized Signature:

Benton Miller, Analyst

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